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Bibliographia primatologica

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Bibliographia primatologica

A CLASSIFIED BIBLIOGRAPHY OF PRIMATES OTHER THAN MAN

PART I

ANATOMY, EMBRYOLOGY & QUANTITATIVE MORPHOLOGY;
PHYSIOLOGY, PHARMACOLOGY & PSYCHOBIOLOGY;
PRIMATE PHYLOGENY & MISCELLANEA

By THEODORE C. RUCH
YALE UNIVERSITY SCHOOL OF MEDICINE

With an Introduction by
JOHN F. FULTON
YALE UNIVERSITY SCHOOL OF MEDICINE

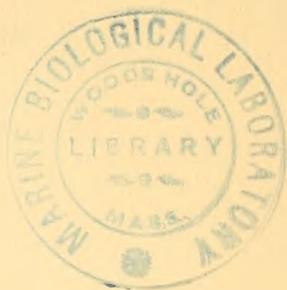
1941

CHARLES C THOMAS
SPRINGFIELD · ILLINOIS BALTIMORE · MARYLAND

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To the Memory of
LIBBY YOUNG RUCH
and
WILLIAM WALLACE RUCH

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PSYCHOLOGICAL ABSTRACTS

BIOLOGICAL ABSTRACTS

ZOOLOGICAL RECORD

A WORLD LIST OF SCIENTIFIC PERIODICALS, 1900-1933

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CLASSIFICATION DÉCIMALE UNIVERSELLE, BRUXELLES

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BIBLIOTHECA HISTORICA-NATURALIS, by W. ENGELMANN

AN INTRODUCTION to the LITERATURE of VERTEBRATE ZOOLOGY

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CATALOGUE of the LIBRARY of the BRITISH MUSEUM (NATURAL HISTORY)

Assistants

1935-1936

ALAN C. OVERTON, Bursary
THEODORE B. ROSENTHAL, N. Y. A.
ALAN A. ROZEN, N. Y. A.
RICHARD V. WORTHINGTON, N. Y. A.

1936-1937

SOLOMON KASDON, N. Y. A.
DAVID NOVARR, Bursary
ABRAHAM ROSENBLUM, N. Y. A.
THEODORE B. ROSENTHAL, N. Y. A.
MISS JEAN WELLS, N. Y. A.

1937-1938

HENRY C. BARTHEL, Bursary
SOLOMON KASDON, N. Y. A.
THEODORE B. ROSENTHAL, N. Y. A.

1938-1939

HENRY C. BARTHEL, Bursary
ROBERT F. DINE, N. Y. A.
THEODORE B. ROSENTHAL, N. Y. A.

1940-1941

MARCUS E. SANFORD, N. Y. A.

Acknowledgments

IN the preceding pages I have attempted to acknowledge some of the institutions and individuals who have aided me in compiling this bibliography. The Belgian American Educational Foundation, through a Special Fellowship, made it possible for me to have the advice of several leading European "primatologists," especially Mr. R. I. Pocock, Professor Zuckerman and Monsieur Frechkop, and to have access to the rich holdings of the libraries of London and Bruxelles. We are grateful to Mr. Julian Huxley and the Zoological Society of London for their breadth of view in guaranteeing publication of a work of this character. That the intensification of the War prevented this collaboration in nowise diminishes our indebtedness. In the end, publication was assisted by grants from the Belgian American Educational Foundation and the Historical Library, Yale School of Medicine.

To Dr. John Farquhar Fulton I owe my original interest both in bibliography and in primate biology, and the incentive for undertaking this work. Without his patience born of experience with this type of work, the slowness of progress would many times have led to the abandonment of the whole project. Through his generosity I have been able to have on my desk much original primate literature and most of the bibliographical sources cited on a previous page, which ordinarily can be consulted only at the expense of time and convenience in the reference rooms of libraries. Many of these were especially purchased for this purpose.

Bibliographical work places upon the circulation staffs of libraries an amount of work which must seem excessive, so that we have deemed it fitting to mention the principal libraries which we have used. In this connection I wish especially to acknowledge the efforts on my behalf of Mrs. Anar S. Bradley of the Library of the Yale University School of Medicine who has handled several thousand volumes most expeditiously and without a single error; and to Mrs. Charlotte H. Peters, Librarian to Dr. Fulton, for much technical assistance in bibliographical matters, and for calling my attention to many current items which might otherwise have escaped notice.

The vast amount of typing and other detailed work involved in a project of this sort could scarcely have been accomplished without the assistance made available through the National Youth Administration and the Bursary Scholarships of Yale University. To one of these assistants, Mr. Theodore Rosenthal, who has worked far beyond any remuneration, I am especially indebted. Others who have similarly given of their time, often without compensation, are Miss Loretta Roche, Mrs. Alice Peters Irwin, Miss Pravda Hoff, Dr. Meliha Inay. Valuable suggestions with respect to organization and terminology have been made by Dr. Solly Zuckerman and Dr. Adolph Schultz. And finally, thanks are due my wife, who compiled the author index, and to Mr. R. F. Gehner, who designed the book.

T.C.R.

New Haven, January, 1941

Introduction

By JOHN F. FULTON

ANIMALS having physical form akin to that of man have always stirred human curiosity. Among various peoples these manlike creatures are held in deep reverence; even today in India the Hanuman langur, and in Egypt the Hamadryas baboon, are still regarded as sacred. The anthropoids, on the other hand, may be feared and hated, and primitive tribes have attempted systematically to exterminate them as they would the members of a hostile tribe.

Although man and kindred creatures seem logically to fall into a homogeneous group, no one prior to the gifted Linnaeus had the courage, when sorting out the animal kingdom, to group man with ape and monkey. In the first edition of *Systema naturae* (1735) man, *Homo*, was placed with his kin, *Simia* and *Bradypus*, in a group designated "Anthropomorpha." In his Lapland diary under the date of July 11, 1732, there is an illuminating entry which gives the basis of this grouping:

But to decide concerning our own species. If we contemplate the characters of our teeth, hands, fingers, and toes, it is impossible not to perceive how very nearly we are related to Baboons and Monkeys, the wild men of the woods. In as much therefore as these are found to be carnivorous, the question is decided with respect to ourselves.*

Linnaeus at this time (1732) was only 25 years of age. Fifteen years later in a letter to Gmelin (February 14, 1747) he throws further light on the subject in confessing his fear of the theologians:

It would not please, if I placed the man among the anthropomorphous; but man knows himself. Let us abandon words, I do not care what words we use; but from thee, and from the whole world I want an answer to this: What is the difference between man and ape, difference which would be based on natural history? Most definitely I see no difference. I wish some one could show me even one distinction! Should I call a man 'ape' or an ape 'man,' all the theologians would be after me. Yet, for the sake of science, I should have done it.†

In the celebrated tenth edition of *Systema naturae* published in Stockholm in 1758, Linnaeus adopted the Latin term "Primates" to designate the first order of mammals. The name implies superiority of this group of creatures over the other members of the animal kingdom, but Linnaeus was careful, within the new order, not to arrange ascendant families. He placed emphasis upon teeth as a feature distinguishing primates from other forms, and he originally defined a primate as "a quadruped with four parallel incisors, single canines, two pectoral mammae, hands (rather than paws), two complete clavicles, and an arboreal habitat." He recognized that some had tails, but that others lacked this appendage, and he arranged his forms in groups according to such structural peculiarities, without implication that one group is higher than another.

Dr. Ruch has followed Linnaeus in adopting the term "primate," and in the title of his bibliography he has introduced a new and useful derivative "Primateology."

* See Allen, F. H., *Science*, 1941, 93: 183.

† Hrdlicka, A., *Science*, 1940, 92: 605.

With Linnaeus, he has also been careful to avoid implication concerning which form is high and which low. Recognizing that man has specific characteristics embraced in the designation "human," he has chosen, at the suggestion of Dr. Adolph Schultz, to employ the phrase "primates other than man" rather than to accept such current terms as "subhuman," "infrahuman," or the somewhat theological designations which imply that man is the head and center of the universe.

A student of the nervous system, however, recognizes differences of organization among the various primate forms, and in discussing the origins of the nervous system the term "encephalization" is frequently employed. This implies that in evolutionary history there has been a tendency for the encephalon to take over functions controlled in earlier times by other parts of the nervous system. One of the highest degrees of encephalization in the motor sphere is encountered in the cortical representation of the spider monkey's tail. As far as we know, a spider monkey whose tail representation has been removed is not able again to move its tail voluntarily; whereas man can walk on his paretic hind limb within a few weeks after the leg area has been entirely removed. Are we to say, therefore, that the cerebral organization of the spider monkey is superior to that of man, and that in consequence the spider monkey is higher? Obviously no such inference can be drawn, and Darwin himself was the first to point out that specialization of a given function can not be used as a criterion of evolutionary position.

However scrupulous the biologist must be in avoiding the errors of anthropocentricity, the medical scientist is not necessarily under the same obligation. His preoccupation with man, far from being considered opprobrious, has often been extolled in medical literature as a virtue. And it is my con-

viction that the anthropocentricity among those working in the basic medical sciences is the most significant development in medical education and research in this country. Whether it be in the devising of a laboratory exercise, or in the citing of experimental evidence from the lecture platform, or in the choice of a laboratory animal for purposes of investigation, let it be said, 'Better a cat than a frog, better a monkey than a dog, better a man than a marmoset.'

For more than a decade several of the preclinical laboratories of this medical school, and notably the Laboratories of Primate Biology under Professor Yerkes, have devoted their attention to the investigation of primates. Inevitably these animals come to be something more than a 'laboratory animal'; they are research material of special quality. One's interest expands and one begins to think of a biology of the primates. For the past decade the Laboratory of Physiology has accepted the proposition: 'If not man, then monkey.' We have attempted to make some contribution to the paraphernalia of primate biology as well as to the body of fact in the form of developing a surgery suitable to delicate and expensive material, of attention to taxonomical terminology, to care and housing of the primates, etc. To compile and analyze the literature of the primates in the form of the present bibliography seemed a logical step in strengthening the structure of primate biology, and a necessary step, since abstract and bibliographical journals on the whole recognize no distinction of this group of animals. Having, as it were, collected the literature of the primates *on paper*, we propose now to collect such literature *in fact*. We hope to build, as a special collection of the Historical Section of the new Library, a library of primate literature; a modest nucleus has already been formed during the past ten years. The propriety of incorporating a 'zoological collection' in a medi-

cal library might possibly be questioned; however, I can only repeat my conviction that primate biology in the future will become even more intimately bound up with teaching and research in the medical sciences.

To select the primate group as the subject of a monographic bibliography requires no apology; many, if not most, vertebrate and invertebrate groups have been so treated. One need mention only a few outstanding works such as Dean's *Fishes*, Strong's *Birds* and McCoy and McClung's *Anaerobic bacteria*. The magnitude of the literature of the primates is surprisingly small when compared with these compendia. The number of authors who have studied the primates from the point of view of anatomy, physiology and behavior is little more than two thousand, and the total number of papers dealing in whole and in part with the primates does not reach five thousand, a figure which may be set against the fifty thousand papers on fishes listed by Bashford Dean for the years up to 1914.

After the time of Linnaeus, the literature of the primates increased slowly but steadily until some twenty years ago, when—owing possibly to the rather sudden and widespread use of primates for studies in experimental medicine—the output of published works rose sharply. This literature has never before been brought together in a systematic manner, and in view of the increasing importance of a biological knowledge of manlike creatures, it has seemed to Dr. Ruch worth while to devote several years to the formidable problem of collecting and classifying this diverse body of material. He has done it methodically and in accordance with a prearranged plan that has made for completeness, accuracy, consistency, and, I believe, for great usefulness to many branches of biology and medicine. To those who seek fresh concepts and new experience Dr. Ruch's classification of the literature will serve as a navigator's chart for a sea which has countless hazards, as well as every conceivable fascination.

New Haven, February, 1941

Author's Introduction

A SUBJECT-BIBLIOGRAPHY is almost inevitably out of date before it can reach publication. Yet in another sense a bibliography is unique among published works since it can *never* be out of date—for the period of years covered—provided, of course, it is sufficiently well executed and the literature is sufficiently well searched. With a few exceptions, no works are included here which were published after the beginning of 1939.

The present volume is Part I of a projected bibliography embracing all fields of primate biology. Included in this volume is the literature of the morphological sciences (anatomy and its subsidiary branches of embryology, histology, etc.), and the literature of the functional sciences (physiology, pharmacology, and experimental and observational psychobiology), and certain historical and miscellaneous bibliographies. Part II will include the literature of the pathological sciences (pathology, bacteriology and immunology, and parasitology), and probably as well the taxonomic literature of the extant primates. The materials for the second volume are largely gathered and the analysis of them is considerably advanced. The amount of overlapping between the two parts is deemed insufficient to warrant delay in publication of the present volume.

The completeness attained in the present work is difficult to assess. We have included many papers in which primate forms constitute only a fraction of the vertebrate or mammalian series studied; yet no attempt has been made to record every oblique reference to the primates. On this score we feel that we have occasionally erred on the side of over-inclusiveness. Many articles of a "popular" character, especially in psychobiology, have been included, but again no attempt at absolute completeness

has been made. In addition to searching year by year the bibliographical sources listed in the Acknowledgments, many journals have been scanned for primate literature; and the bibliographies or footnotes of many articles and books have been searched. That this has not sufficed to render the bibliography complete is proved by the fact that occasionally a previously unrecorded reference comes to light. This is especially true for literature of recent years which has not yet found its way into bibliographical journals and for works published in the Asiatic and Eastern European countries. We have become convinced that no single person can hope to uncover all the literature of the primates; that can be approximated only if specialists in the various fields will call our attention to omissions so that they can be included in a supplement or in the second volume of the bibliography. Similarly, checking and even double checking seems not to have eliminated all errors, so that notations for an errata list will be greatly appreciated.

ARRANGEMENT OF THE BIBLIOGRAPHY

The first decision which must be made in compiling a bibliography is what feature common to all studies will take precedence over all others in determining the order in which the items are printed. Shall the bibliography be arranged according to author, to subject, to date of publication, or to the taxonomic position of the species of primates studied? Perhaps the most common procedure is to list the items alphabetically by authors and to analyze them according to subject in an index, alphabetic or systematic. This practice, in the opinion of the authors, ignores one of the principal values of the printed page, the opportunity to

present to the eye a group of items having in common some fundamental relationship. An author-list throws together on the printed page works entirely without relation to each other beyond the alphabetical accident of the authors' parentage. This objection is particularly weighty when we have to deal with such diverse materials as those included in this bibliography. For these reasons we have made *subject* the primary basis for classification. On the other hand, wherever some other basis of classification seemed more suitable it has been used. For example, the literature to the beginning of the 19th Century has been arranged chronologically in three sections. Again, when structure or function does not lend itself to further subdivision, we have resorted to the species of animals studied for the basis of a finer classification. This has been done, for example, in "*Habits in nature and captivity*" and in certain of the anatomical sections where an organ as a whole (e.g., the configurational pattern of the cerebral cortex) has been extensively studied. Those advantages inherent in an arrangement by authors can be largely gained by an index of authors, which has been provided.

Having chosen to make structure the basis of classification of anatomical studies, the difficulty arises that a printed list is a strictly unidimensional frame into which must be fitted studies which have at least two parameters. If a system and its subdivisions into organs is regarded as one parameter, a given study is also classifiable according to a second dimension, which is the *aspect* of the structure investigated. Along this dimension are found gross anatomy, minute anatomy or histology, development and growth, variations and anomalies, and quantitative aspects studied by the techniques of physical anthropology. It is obvious that this is a true parameter because the body as a whole, a system, or an organ can be approached from any of these points of view. It was considered desirable to classify according to this parameter in a subsidiary fashion. Therefore the chapter devoted to a system, and to smaller

units than a system wherever justified by the volume of literature, is opened with an expansion for embryology, histology, dimensions and weights, etc. In certain sections, only cross reference numbers appear under these headings. Where the structural unit involved is a single organ or a bone we have followed the practice of entering such a paper under the structure and cross referencing to *Histology*, *Embryology*, or similar rubrics at the beginning of the section. This was done to avoid the confusion arising from over-fragmentation of the literature.

Obviously many papers could be placed under more than one topic heading. The item is printed in full under the topic which seems to be the main theme of the paper, though sometimes this decision is difficult. Subsidiary themes are honored by listing the serial number at the end of the section devoted to that subject. Each section therefore consists of a list of items printed in full, followed by a list of serial numbers that leads the reader to further literature of the subject. The extent to which monographs or articles which deal comprehensively with a system as a whole should be cross referenced presents a difficult problem. There seems little to be gained in cross referencing such an article to each of the dozens of smaller topics with which it treats. Instead, such works are grouped together under the heading *Comprehensive and general studies* and constitute the first section for each chapter. Similarly, works dealing in a comprehensive fashion with the body as a whole form the first chapter of the anatomical section after the opening chapter on embryology. Articles which are general in point of view or not truly comprehensive in scope tend to be cross referenced more, despite their lesser value, than works easily recognized as extensive monographs.

In the preliminary classification of literature in anatomy and physiology the compact, decimal notation provided by the *Classification décimale universelle*, Bruxelles, 1927-29, proved extremely useful. The final arrangement has departed somewhat from the Bruxelles scheme for anatomy and con-

siderably for physiology, especially for the nervous and reproductive systems. No adequate schedule of categories could be found for psychobiological literature. The one used owes much to Spence's review of learning and the higher mental processes in infrahuman primates (no. 3308) and to *Comparative psychology*, by Warden, Jenkins and Warner (no. 3309). In it we have attempted to phrase the subject headings in non-mentalistic terms.

It is scarcely necessary to dwell on the difficulties of classifying the literature of functional sciences, especially of psychobiology, but a few words of explanation may assist the user. It early proved necessary to distinguish between experimental or controlled, systematic observational studies and the large class of observational, anecdotal and "popular" literature which is grouped under *Habits in nature and captivity*. The latter, being largely opportunistic rather than systematic, defies classification under any topic heading and often analysis for the purpose of cross referencing. By breaking it down according to family and genera, the volume of literature which needs be consulted is reduced. Where this type of literature deals with definite topics and in some detail, it is cross referenced to the expansion under experimental psychology. On the other hand, a few field-studies of a more formal and comprehensive character are included in the topical expansion, and this is especially true of studies of social and reproductive behavior where true experimenting is just commencing. Though a more detailed classificatory scheme for psychobiology was initially devised, in the end it was found that only relatively large categories were feasible. Whatever the initial zeal, the discomforts of Procrustean categories soon convinced us of the folly of attempting to divide a literature where definite lines of cleavage do not exist.

The section on the *Phylogeny of the primates* requires a word of explanation. Since many of the anatomical papers are discussed in relation to the problem of primate phylogeny, we have tended wherever

possible to throw articles to the system or organs described rather than to the rubric *Phylogeny*. Thus, for example, discussions of phylogeny which deal at all comprehensively with all of the systems or with one system are usually assigned to the respective sections for comprehensive and general works. This, we feel, avoids undesirable dispersion of the literature dealing with a given structure. The section on *Primate culture and methodology* is the only one which truly suffers by dividing the bibliography into two parts. The literature of disease, so important to primate culture, will appear in the second volume under bacteriology and parasitology.

STYLE AND FORM

Serial number. References are cited by serial number in the *Index of authors* and in the cross references coming at the end of each section. The literature to 1800 is cited by author with the number of the *Introduction* in which the item appears. A serial number marked with an asterisk indicates that the item has not been checked and analyzed from the original source; usually they have been checked from some bibliographical source. Such unchecked items are estimated to constitute 1.6 per cent of the whole.

Authors' names. The surnames of authors are given as they appear in the original source. Authors' names or initials in square brackets have been supplied. For journal literature, initials were considered sufficient; but to distinguish female authors their given names are spelled out. For books, theses, and other separate publications we have attempted to supply the full given name, and in the *Historical introductions*, the dates of birth and death as well, since this facilitates the finding of a book in the catalogues of large libraries.

Titles. Separate publications are distinguished from periodical literature by writing their titles in italics, and their place of publication, etc. in roman. Titles, including subtitles, are generally given in full for articles and books published since 1800. Occasionally obvious errors have been corrected to avoid the supercilious [*sic*]. Capitals, in accordance with the modern tendency, have been avoided except where absolutely demanded by the usage of a given language, *i.e.*, in German and Danish. Scientific

names of animals have been uniformly italicized with only the generic name capitalized regardless of the typographic treatment in the original. Suprageneric names are capitalized but not italicized. These matters are considered to be within the province of the bibliographer since fidelity to the source (which may be capitalized throughout) is impossible.

Theses, inaugural dissertations, etc. These are cited as books and in the conventional manner except that the publisher as well as the University is given. To assist in locating these in libraries which do not catalogue this class of literature by author, the "Faculty" is indicated by abbreviation in parentheses.

Date of publication. The establishment of the actual date of publication, granting that agreement on what constitutes publication can be reached, is notoriously difficult. This is especially true for the older files of journals, but also for certain current (though not modern) journals. Where ascertainable from tables of contents, title pages or covers the actual date of issue is employed; as second choice any date placed on the title page by the editor as an official date is used. The printer's date appearing as a part of his imprint is taken only as a last resort since it often represents merely the date of publication of the title page. For publications of societies the principal date (not enclosed in brackets) is the year for which the volume is published since this must often serve as a volume number. Where the actual date of publication is different it is usually given in square brackets. In this we have followed the practice of most libraries, which we feel is justified since the function of the bibliography is to lead the reader to the literature without confusion. Questions of priority, etc. are matters for separate investigation and textual comment.

Collation. The number of a *series* is indicated by printing the series number in roman type and enclosing it in parentheses; it always immediately precedes the volume number. "New series" and "neue Folge" are indicated by "n.s." and "n.f." The *volume number* or its equivalent (tome, Band, année, Jahrgang, etc.) is denoted by a number printed in bold-faced type. *Number, Heft, fasciculus, half-volumes, etc.* follow the volume number and are enclosed in parentheses, but are included only under two circumstances: (i) when the volume is not continuously paged; (ii) when the volume appears in two half-volumes. In the latter case, knowledge of the

number of the half-volume often avoids confusion in withdrawing journals from libraries.

Pagination, plates and tables. Final pages are invariably given. Failure to do this is false economy of time and printers' ink, which often causes inconvenience and waste of effort by concealing from the reader whether he has to deal with a paragraph abstract or an extensive monograph. For articles with separate pagination, the total number of pages is written. Plates, tables, maps, etc. with a pagination distinct from the text are treated in a parallel fashion, *i.e.* inclusive numbers or total number being used depending on how they are numbered.

Titles in languages demanding a special alphabet are not given in the original language, nor, with a few exceptions, are they transliterated. Such titles are, however, often given in translation into one of the common languages; they are enclosed in parentheses when drawn from original publications having bilingual tables of contents and in square brackets when supplied.

ABBREVIATION OF JOURNAL TITLES

In this we have followed *A world list of scientific periodicals published in the years 1900-1933*, 2nd ed., London, with occasional minor corrections of obvious errors. Abbreviations marked with an asterisk have not been found in the *World list*, and are expanded in an *Appendix*, which should be consulted for further details.

The abbreviations provided by the *World list* are admirable for the balance struck between compactness and completeness, and for the respect shown for usages in languages other than English. The abbreviations with a few exceptions are self-explanatory, especially if the following rules be noted.

1. Nouns have capital, adjectives small, initial letters. Exceptions are that in English titles, adjectives derived from proper names, as well as noun-adjectives, and adjectives used as nouns are capitalized.
2. Prepositions, articles and the conjunction "and" are omitted wherever possible. The latter or its equivalent is retained if the title consists only of two nouns connected by "and," and where it connects broken compounds.

3. Cognate words in all languages are reduced to the same form, differentiation being gained where necessary by adding the place of publication.
4. The place of imprint is omitted (if not a part of the title) except when needed to distinguish periodicals with the same title, or when the abbreviated form leaves the language of the title in doubt.
5. In Germanic and Scandinavian languages compound words are abbreviated as though the different parts were distinct. With nouns no period or hyphen is used between the parts, which open with a capital letter. (For example, *Entwicklungsmechanik* becomes *EntwMech*). The parts of compound adjectives are separated by period and a hyphen.
6. Abbreviations are followed by a period but true contractions are not. Though a useful distinction, this runs counter to habit and is difficult to follow, and seems not to be followed on occasions by the *World list* itself.
7. The following are a few of the more common abbreviations.

Bl.	Blatt or Blätter
C. R.	Comptes rendus
G.	Giornale
J.	Journal
Jb.	Jahrbuch
Jber.	Jahresbericht
Jh.	Jahresheft
Mbl.	Monatsblatt
Mh.	Monatsheft
Mschr.	Monatsschrift
P.V.	Proces verbaux
R.C.	Rendiconti
Rep.	Report
S.B.	Sitzungsbericht
Schr.	Schrift
Wbl.	Wochenbl.
Wschr.	Wochenschrift
Z.	Zeitschrift
Zbl.	Zentralblatt and Centralblatt
Ztg.	Zeitung

It should be kept in mind that the abbreviations of publications of European scientific bodies refer to the scientific section of the society. The "Klasse" is given only when the society publishes more than one scientific journal with the same name as is true, for example, of the Vienna Academy of Science. A further point is that the *World list* follows changes of

title between 1900–33, as for example, *Morph. Jb.* becomes *Gegenbaurs Jb.* after 1903. However, we have taken the earliest abbreviation to apply retroactively before 1900 despite small changes in title so long as continuity was clearly maintained.

BRACKET MATERIAL

Due to the diversity of subject matter, as well as the cost of publication, annotation by abstract or appraisal was considered impossible. However, the information set forth in the square brackets at the end of each reference constitutes what may be considered an *objective annotation* in compact, codified form. The purpose of the data in these brackets is to give the reader some idea of the character and scope of a publication. The plus signs denote on a three-point scale the degree to which the publication deals with the primates, and is used only when the title does not make this clear or is actually misleading. Thus +++ denotes that the paper is entirely or almost entirely based on the study of primate materials. A single + indicates that little attention has been given the primates, while two pluses (++) suggest that the treatment of the primates is substantial, roughly equal to that accorded all other forms. The size of the publication must of course be kept in mind.

Plates, figures, tables and references. The remainder of the code up to the colon is designed to afford a rough index of the degree to which the publication is documented, and is to be interpreted as follows: "pl" stands for plates which are included in the textual pagination; "f" stands for figures, "t" for tables, and "r" for references cited in the bibliography of the article. Figures, tables and references not numbered in the source are described, for example, by "r", "nt," or "vnt," meaning respectively that the article contains a few tables, that the tables are numerous, or that an exceptionally large number of tables have been used.

The brackets have also been used to provide a word or phrase descriptive of the character or language of the publication, as for example, "abstract," "review," "lecture," "annotated bibliography of literature." For publications in languages other than the principal ones, or articles difficult of access, especially when they have not been seen in the original, an abstract is sometimes cited. Occasionally publications that are related but do not appear contiguously

in the bibliography are reciprocally cross referenced.

Primate genera. A species index was considered carefully but finally abandoned on the grounds of expense as well as serviceability in favor of a codified indication of the genera of primates on which each study is based. The practice followed, we believe, enables the user of the bibliography to determine, by a few minutes spent in scanning the brackets, all of the papers in which a given genera, family, or larger taxonomic group has been studied with reference to any given topic. A user wishing to isolate all of the items dealing with a given genera for all subjects or for a wide range of subjects will encounter more difficulty, but a certain effort may be expected from one of such catholic interests. The scheme adopted seems to present some real advantages. The animals studied can be learned at the same time the title is read, so that the listing of animals further annotates the entry. The needs of the user who wishes to enter the bibliography with a genus, a family, a division or a suborder are equally well served, whereas an index by genera would involve considerable (repetitive) searching to get out the items dealing with groups larger than genera. In a species index the subject headings are necessarily coarser than those used in the text unless the equivalent of our table of contents be reprinted for each of the genera. Finally, many indexes ignore the subsidiary topics, owing to the numbers of index entries required. For example, a study of the bones, muscles and nerves of the fore and hind limbs in ten genera of animals would require sixty entries in the index. This problem does not arise with our arrangement because the subject cross references lead back to the main entry where the animals studied can be discovered.

The nomenclature of the primates is notoriously confusing; the use of names varies considerably between countries and in different epochs and the occasional exclusive use of common names is a further problem. The materials studied by anatomists and physiologists have often been incorrectly or loosely diagnosed. We have attempted to translate the names as used into a reasonably modern terminology, but in handling such a vast amount of detail errors of all sorts have certainly been made, and we can only hope that these are not sufficiently grave and frequent to be troublesome. The determination of the correct name apart from

purely terminological considerations is, we feel, a matter for special research on the part of specialists and not properly a part of such a work as this.

The abbreviations and contractions of the names of animals are designed to be mnemonic and self-evident to anyone acquainted with the currently favored name of the animal in which he is interested. They are based upon Flower's well considered list, built out from various sources for genera not included in his list.

It will be noted that the contractions are coined by leaving out vowels and that for short names, especially for the South American monkeys, an abbreviation is used. To obtain a brief, distinctive contraction of long, compound names, the first part of the name is represented by a single letter or contraction and the second part by a single letter, preceded by a hyphen, "-p" standing always for "-pithecus," "-c" for "-cebus," "-l" for "-lemur," "-m" for "-midas," and "-mc" for "-mico." Contractions for the names of families or suborders have been used in a few instances.

The contractions are expanded in the following list, which gives first the name on which the contraction is based and in parentheses Elliot's equivalent where that differs by more than a simple variation in spelling.

Gr	Gorilla
Pn	Pan
Png	Pongo
Hyl	Hylobates
Symp	Sympalangus
Prsb	Presbytis (Pithecius, Pygathrix)
Nas	Nasalis
Simias	Simias
Rhn-p	Rhinopithecus
Clb	Colobus
C-p	Cercopithecus (Lasiopyga, Rhinostigma & Miopithecus)
Ery-c	Erythrocebus
C-c	Cercocebus
Mc	Macaca (Pithecius, Simia, Magus)
Cyn-p	Cynopithecus
Thr-p	Theropithecus
Pp	Papio
Mndr	Mandrillus (Papio)
Aot	Aotes
Cal-c	Callicebus
Pith	Pithecia

Chirop	Chiroptes	Mcr-c	Microcebus
Cacaj	Cacajao	Chrg	Cheirogaleus
Saim	Saimiri		
Ceb	Cebus	Pr-p	Propithecus
Lag	Lagothrix	Avh	Avahi (<i>Lichenotus</i>)
Brchyt	Brachyteles	Indr	Indris
Atl	Ateles		
Al	Alouatta	Lor	Loris
Hap	Hapale (<i>Callithrix</i>)	Nyct-c	Nycticebus
Myst	Mystax (<i>Cercopithecus</i> & <i>Leontocebus</i>)	Prdct	Perodicticus
Oed-m	Oedipomidas	Arct-c	Arctocebus
Leon-c	Leontocebus		
Cal-mc	Callimico	Glg	Galago & Hemigalago
		Daub	Daubentonina
Lm	Lemur	Tars	Tarsius
Lp-l	Lepilemur (<i>Lepidolemur</i>)		
Hp-l	Hapalemur (<i>Myoxicebus</i>)	†††	Fossil primates

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DIMENSIONS, WEIGHTS, &c.

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HISTOLOGY

See also: 456, 552, 553, 567, 577, 583, 584, 585, 591, 599, 605, 608, 613, 621, 623, 625, 641, 642, 643.

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(See page 117)

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(See pages 45 & 46)

The Urogenital System

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DIMENSIONS, WEIGHTS, &c.

See also: 277, 656, 669, 1956.

HISTOLOGY

See also: 666, 670, 675, 694, 698, 715, 716, 717, 718, 720, 722, 2846, 2857.

EMBRYOLOGY

See also: 105, 106, 667, 674, 684, 696, 728, 734, 743, 749, 2897.

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See also: 671, 693, 724, 747, 750, 754, 755, 756, 757, 758, 759, 760, 762.

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(excl. of penis)

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[++ 46f-4t-nr: Lm Lp-l Mer-c Chrg Avh Pr-p Indr Nyct-c Prdct Glg Daub]

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Skeleton as a Whole

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[Prsb]

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Skeleton as a whole

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[+ 32f-r: *Pn Png C-p Cyn-p Pp*]

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[cf. no. 821]

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[1pl-1f-3t-r: *Mc*]

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EMBRYOLOGY

See also: 130, 132, 136, 367, 813, 838, 897, 903, 904, 977, 986, 2682.

ANOMALIES

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Axial & Appendicular Skeleton

VERTEBRAL COLUMN

GENERAL MORPHOLOGY

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[4f-t: *Mc*]

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[++ 9f: *Pn Mc*]

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[*Pn*]

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[++ 21f-2t-nr: *Gr Pn Png Hyl Symp Hyl Prsb C-p Ery-c Mc Pp Mndr Ceb Atl Al Hap*]

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[+++ Gr]

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[Gr]

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*Aot Pith Saim Ceb Lag Atl Al Hap
Oed-m Lm Lp-l Hp-l Mer-c Avh Indr
Lor Nyct-c Prdct Arct-c Glg Daub Tars]*

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See also: 164, 219, 220, 224, 229, 238, 239, 240, 267, 293, 294, 764, 770a, 796, 858, 883a, 920, 923, 1339, 1537, 1579, 1580, 1614, 1690, 2309, 2310, 2311, 2411.

Vertebral column

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Vertebral column

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*Atl Al Hap Myst Oed-m Lm Lp-l
Mer-c Pr-p Lor Nyct-c Prdct Glg Tars]*

See also: 164, 213, 219, 220, 293, 834, 839, 845, 850, 852, 888, 1591, 1592, 1614.

BONES OF UPPER EXTREMITY
See also: 764, 783, 793, 794, 801, 1389, 3963.

CLAVICLE & SCAPULA

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See also: 213, 764, 814, 895.

HUMERUS, RADIUS & ULNA

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See also: 814, 886, 1667, 3951, 3957.

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[++ 22f–2t–nr: Gr Pn Png Hyl Prsb C-p Mc Atl Lm Nyct-c]

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[+ 1f: Gr Pn Png Hyl Clb Pp Avh]

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[2f–14r: Lor Prdct Glg Daub]

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[16pl–1t: Gr]

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[+ 7f–vnt–30r: Gr Pn Png]

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See also: 164, 306, 365, 780, 841, 1662, 3924, 3958.

BONES OF LOWER EXTREMITY

See also: 783, 793, 794, 801, 3957, 3963.

PELVIS & HIP-JOINT

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See also: 794, 843, 992.

Skull as a Whole

GENERAL MORPHOLOGY Comprehensive & General Studies

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General morphology of skull

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Skull as a whole

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SUTURES, FONTANELLES &
OSSA INTERCALARIA

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zum 70ten Geburtstage R. Leuckarts. Leipzig: Wilhelm Engelmann, 1892, 1—25, pls. 1—2.

[++ nt: Gr Prsb]

See also: 1018, 1043, 1044, 1064, 1070, 1071, 1085, 1089.

Special morphology

PTERION & POST-ORBITAL REGION

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1172. Ashley-Montagu, M. F. A note on a rare type of pterion in the gorilla. *J. Anat., Lond.*, 1930, 64, 247—249. [2f-6r: Gr]

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[++ 48f-12t-101r: Gr Pn Png Hyl Symph Prsb Rhn-p Nas Clb C-p Ery-c C-c Mc Cyn-p Thr-p Pp Mndr Aot Cal-c Pith Chirop Saim Ceb Lag Atl Brchyt Al Hap Myst Oed-m Leon-c Lm Pr-p Indr Prdct Glg Daub Tars]

1175. Camerano, L. Materiali per lo studio della sutura temporofrontale nell' orang e nei miceti. *Boll. Mus. Zool. Anat. comp.*, Torino, 1897, 12, no. 291, 3 pp. [12f: Png Al]

1176. Collins, H. B., Jr. The pterion in primates. *Amer. J. phys. Anthropol.*, 1925, 8, 261—274. [7f: Gr Pn Png Hyl Symph

Prsb Simias Nas Clb C-p Ery-c C-c Mc Cyn-p Thr-p Pp Aot Cal-c Pith Saim Ceb Lag Atl Al Hap Sen-c Oed-m Leon-c Lm Pr-p Nyct-c Glg]

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[++ 1f: Gr]

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1181. Gregory, W. K. Reply to Professor Wood-Jones's note: "Man and the anthropoids." *Amer. J. phys. Anthropol.*, 1928, 12, 253—256. [+++ 1p]

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1184. Hecker, P. La région ptérique osseuse chez l'homme et les simiens. (Étude d'anatomie comparée). *Arch. Anat., Strasbourg*, 1926—27, 6, 283—320. [23f-2t-33r: Gr Pn Png Hyl Prsb C-p C-c Mc Pp Mndr Ceb Atl Hap Lm Nyct-c]

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1191. Nippert, Olga. Zur Morphologie der lateralen Orbitalwand. *Verh. schweiz. naturf. Ges.*, 1929, 110, 184—187. [Abstr.]

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See also: 143, 156, 219, 1005, 1019, 1019b, 1070, 1079, 1160, 1265, 1268, 3955.

Special morphology

THE ORBIT

1195. Bolk, L. De topographische verhoudingen der orbitae in jonge en volwassen schedels van den mensch en de menschalen. *Versl. gewone Vergad. Akad. Amst.*, 1918, 26, (2), 1364-1373. — On the topographical relations of the orbits in infantile and adult skulls in man and apes. *Proc. Acad. Sci. Amst.*, 1919, 21, (1), 277-285.

[++ 13f: Gr Pn Png]

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1196a. Bondy, Emilie. Der Aufbau der lateralen Orbitalwand. *Mitt. anthrop. Ges. Wien*, 1938, 68, 292-298. [2f-1t-16r: Gr Pn Png]

1197. de Filippi, F. Ueber das Foramen orbitotemporale der amerikanischen Affen. *Untersuch. Naturl. Mensch. Tiere*, 1865, 9, 360-362.

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[++ Pn Png C-p Mc Pp Ceb Atl Lm]

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[Jap.: Pn Png Mc Pp]

1200. Koczián, L. A föemlősök szemüregének szerkezetéről. (Über den Bau der Augenhöhle der Primaten.) *Allatt. Közlem.*, 1908, 7, 186-214, 236, pls. 1-2. [4f-3t-nr: Gr Pn Png]

Hyl Prsb Clb C-p Mc Pp Aot Pith Saim Ceb Lag Brchyt Atl Al Hap Lm Avh Lor Glg Tars]

1201. Major, C. I. F. On some characters of the skull in the lemurs and monkeys. *Proc. zool. Soc. Lond.*, 1901, (1), 129-153, pls. 11-13.

[21f: *Symp Prsb Rhn-p Nas Clb C-p Ery-c C-c Mc Cyn-p Pp Aot Cal-c Pith Cacaj Saim Ceb Lag Brchyt Atl Al Hap Myst Lm Hp-l Lp-l Mer-c Chrg Pr-p Avh Lor Nyct-c Prdct Glg Tars †††*]

1202. Regnault, F. Suture lacrimo-ethmoidale. *Bull. Soc. Anthrop. Paris*, 1894, (4), 5, 413-419. [++ 1t: Gr Pn Png Hyl]

1203. Rode, P. Sur quelques caractères différenciels de la tête osseuse des cercopithèques et des cercocèbes. *Mammalia*,* 1936, 1, 59-64, pl. 2. [2f-2t: C-p C-c]

1204. Thomson, A. The orbito-maxillary frontal suture in man and the apes, with notes on the varieties of the human lachrymal bone. *J. Anat., Lond.*, 1890, 24, 349-357.

[++ 2f-1t: Gr Pn]

1205. von Török, A. Die Orbita bei den Primaten und die Methode ihrer Messung. *Korresp Bl. dtsch. Ges. Anthrop.*, 1881, 12, 146-149. [Abstr]

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1207. Weinert, H. Die kleinste Interorbitalbreite als stammesgeschichtliches Merkmal. *Z. Morph. Anthrop.*, 1927, 26, 450-488, pls. 20-24.

[++ vnt: Gr Pn Png Hyl Symph Prsb Nas Clb]

1208. Zeiller, Joseph. Beiträge zur Anthropologie der Augenhöhle. *Anthropologische Untersuchungen über die Augenhöhle bei Mensch und Affen. Inaug.-Diss. (Phil.) München*, 1899, 96 pp., 1 tbl. [++ 19f-21t: Gr Pn Png Hyl Prsb Clb C-c Mc Pp Cal-c Pith Saim Ceb Lag Atl Al Hap]

See also: 1018, 1043, 1060b, 1060c, 1087, 1100, 1188, 1233, 1258, 1306, 2352.

Special morphology

NASAL FOSSA & NASAL BONE

1209. Burmeister, H. Ueber einige osteologische Anomalien des Orang-Utang. *Ztg. Zool.*,* 1848, 1, 3-5. [Png]

1210. Chatin, J. Études ostéologiques sur les fosses nasales des quadrumanes. *C. R. Ass. franç. Av. Sci.*, 1875 [1876], 4, 793-799. Abstr.: *Arch. Naturgesch.*, 1878, 44, (2), 83.

[C-p Mc Pp Saim Ceb Hap]

1211. Chudzinski, T. Les anomalies des os propres du nez chez les anthropoïdes, et principalement chez les orangs. *Bull. Soc. Anthrop. Paris*, 1893, (4), 4, 788-791. [3f: Gr Pn Png]

1212. Duckworth, W. L. H. On an unusual form of nasal bone in a human skull. *J. Anat., Lond.*, 1902, 36, 257-259. [+ 2f: Gr]

1213. Forster, A. La pyramide nasale chez certains gibbons. *Bull. Soc. Anat. Paris*, 1923, 95, 817-821. [2f: Hyl Symph]

1214. Forster, A. Formation de la pyramide nasale chez les gibbons. *Arch. Anat., Strasbourg*, 1924, 3, 107-113. [6f: Hyl Symph]

1215. Frets, G. P. Beiträge zur vergleichenden Anatomie und Embryologie der Nase der Primaten. II. Die Regio ethmoidalis des Primor-

dialcraniums mit Deckknochen von einigen platyrhinen Affen. *Gebenbaurs Jb.*, 1913, 45, 557–726, pls. 18–20. [113f: *Saim Ceb Atl Al*]

1216. Frets, G. P. Beiträge zur vergleichenden Anatomie und Embryologie der Nase der Primaten. III. Die Regio ethmoidalis des Primordialcraniums mit Deckknochen von einigen Catarhinen, Prosimiae und dem Menschen. *Gegenbaurs Jb.*, 1914, 48, 239–279, pl. 7.

[55f: *Prsb Mc Lm Pr-p Tars*]

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[+ 11f-vnt-30r: *Gr Pn Png Hyl*]

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1222. Leuckart, R. Ueber einige abnorme Bildungen des Nasenbeins beim Menschen und Orang-Utang. *Ztg. Zool.*, * 1848, 1, 59–61.

[++ *Png*]

1223. Maggi, L. Sopra una varietà morfolologica delle ossa nasali e intermascellari nell'orango. *R. C. Ist. lombardo*, 1891, (2), 24, 401–415, pl. 3. [r: *Png*]

1224. Maggi, L. Intorno alla forma primitiva delle ossa nasali nell'orango (*Satyrus*). *R. C. Ist. lombardo*, 1891, (2), 24, 808–820, pl. 16. [*Png*]

1225. Manouvrier, L. Mémoire sur les variations normales et les anomalies des os nasaux dans l'espèce humaine. *Bull. Soc. Anthropol. Paris*, 1893, (4), 4, 712–747. [+ 4f-t: *Gr Pn Png*]

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[+ 10f-nr: *Gr Pn Png Hyl Pp*]

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[+ 7f-6t-nr: *Gr Prsb Nas Clb C-p C-c Mc Pp Ceb Atl Al Hap Lm Pr-p Indr*]

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anthropoid apes and its relationship to the nasal bridge in man. *Biometrika*, 1913, 9, 391–445.

[++ nf-nt: *Gr Pn Png Hyl Symph*]

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[If: *Mc*]

See also: 327, 480, 481, 1005, 1060c, 1066, 1084, 1087, 1100, 1138a, 1150, 1195, 1229, 1231, 1233, 1235, 1239, 1242.

Special morphology

PARANASAL SINUSES

1229. Aichel, O. Die Bulla nasolacrimalis des Gorilla. *Z. Morph. Anthropol.*, 1934, 34, 21–40, pls. 1–5. [4f: *Gr Pn Png*]

1230. Aubert, E. Recherches anatomique sur les sinus osseux des simiens. *C. R. Ass. Anat.*, 1929, 24, 573–575. [Abstr.: *Gr Png C-p Pp Atl Al Oed-m Hap*]

1231. Bolck, L. Die "Bulla maxillaris" des Gorilla. *Anat. Anz.*, 1917, 50, 277–282. Abstr.: *Werk. Genoot. Nat.-Genees- en Heelk.*, Amst., 1918, (2), 9, 132–133. [4f: *Gr*]

1231a. Dehn, O. Zur Frage über die Stirnhöhlen bei Menschen und Anthropomorphen. *Fortschr. Röntgenstr.*, 1936, 54, 92–93.

[2f: *Gr Png*]

1232. Edmond, A. Étude des sinus chez les singes. *Ann. Mus. Hist. nat. Marseille*, 1929, 22, 1–30, 3 pls. [12f-nr: *Gr Pn Png Hyl Symph Prsb Nas C-p Mc Pp Mndr Atl Al Hap Oed-m*]

1233. Eller, H. Der Sinus maxillaris und seine Nachbarorgane bei verschiedenen Affen und beim Hunde. *Z. Anat. EntwGesch.*, 1932, 97, 725–756. [++ 27f-nt-nr: *Png Mc Pp*]

1234. Jones, F. Wood. The so-called maxillary antrum of the gorilla. *J. Anat., Lond.*, 1938, 73, 116–119. [3f: *Gr Pn Pp*]

1235. Keith, A. Inflation of the nasal canal in the skulls of adult gorillas and chimpanzees, and the relative development of the sinus maxillaris and inferior meatus in man and apes. *J. Anat., Lond.*, 1902, 36, xvii–li. [3f: *Gr Pn Pp*]

1236. Kleinschmidt, O. Ueber Stirnbeinhöhlen und Siebbeinzellen beim Orang. *Z. Säugertierk.*, 1933, 8, 70–72, pl. 13. [Png]

1237. Kleinschmidt, O. Beiträge zur Naturgeschichte des Orangutans. *Berajah*, 1934, 1–16, 4 pls. [Png]

1238. Paulli, S. Über die Pneumaticität des Schädels bei den Säugetieren. III. Über die Morphologie des Siebbeins und die der Pneumaticität bei den Insectivoren, Hyracoideen, Chiropteren, Carnivoren, Pinnipedien, Edentaten, Rodentien, Prosimiern und Primaten, nebst einer

zusammenfassenden Übersicht über die Morphologie des Siebbeins und die der Pneumaticität des Schädels bei den Säugetieren. *Morph. Jb.*, 1900, 28, 483-564, pls. 27-29.

[+ 36f-17r: *Png Hyl Prsb Mc Pp Mndr Ceb Hap Lm Lor Glg*]

1239. Seydel, O. Über die Nasenhöhle der höheren Säugetiere und des Menschen. *Morph. Jb.*, 1891, 17, 44-99, pls. 4-6. [+++ 3f: *Gr Png Hyl Nas Mc Pp Mndr Aot Ceb Hap Lm Lor Nyct-c Glg*]

1240. Sitsen, A. E. Beitrag zur Kenntnis des Sinus frontalis. *Anthrop. Anz.*, 1931, 7, 208-235, pl. 3. [+ 11f-11r: *Gr Pn Png*]

1241. Underwood, A. S. An inquiry into the anatomy and pathology of the maxillary sinus. *J. Anat., Lond.*, 1910, 44, 354-369. [+ 14f: *Gr Pn Png*]

1242. Wegner, R. N. Sonderbildungen der Kieferhöhle bei Anthropoiden. *Anat. Anz.*, 1936, 83, 161-193. [10f-23r: *Gr Pn*]

1243. Weinert, H. Die Ausbildung der Stirnhöhlen als stammesgeschichtliches Merkmal. Eine vergleichend-anatomische Studie mit einem Atlas der Stirnhöhlen und einem neuen Messzirkel zur Ermittlung der inneren Schädelmasse. *Z. Morph. Anthropol.*, 1925, 25, 243-357; 1926, 25, 365-418, 26 pls. [++ 78f-143r: *Gr Pn Png Hyl Symp Prsb Nas Clb C-p Ery-c C-c Mc Thr-p Pp Mndr Aot Cal-c Chirop Saim Ceb Lag Brchyt Atl Al Hap Myst Lm Lp-l Hp-l Mcr-c Chrg Pr-p Avh Indr Lor Nyct-c Prdet Arct-c Glg Daub*]

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See also: 164, 222, 1009, 1018, 1085, 1219, 1221.

Special morphology

CRANIOPHARYNGEAL CANAL

1245. Cave, A. J. E. The craniopharyngeal canal in man and anthropoids. *J. Anat., Lond.*, 1931, 65, 363-367. [+ 4f-2t-10r: *Gr Pn Png Hyl C-p Mc Pp*]

1246. Maggi, L. Il canale cranio-faringeo negli antropoidi. *R. C. Ist. lombardo*, 1891, (2), 24, 138-149, pl. 1. *Arch. Anthropol. Etnol.*, 1891, 21, 53-64, 1 pl. [Gr Pn Png Hyl]

1247. Schlaginhaufen, O. Ein Canalis cranio-pharyngeus persistens an einem Menschenschädel und sein Vorkommen bei den Anthropoiden. *Anat. Anz.*, 1907, 30, 1-8. [+ + 5f-16r: *Gr Pn Png*]

1248. Schultz, A. Der canalis cranio-pharyngeus persistens beim Mensch und bei den Affen. *Gegenbaurs Jb.*, 1917, 50, 417-426. [+ 3f-3t: *Prsb C-p Ceb Hap*]

Cranial Bones

See also: 1071, 1084, 1085, 1087.

OCCIPITAL BONE

1249.* Albrecht, Carl Martin Paul. Sur la fossette vermicelle du crâne des mammifères. Leipzig: Steinacker, 1884, 24 pp.

1250. Anderson, R. J. The occipital bone in primates. *Int. Mschr. Anat. Physiol.*, 1910, 27, 73-82. [14f: *Gr Pn Png Hyl Prsb C-p C-c Mc Pp Pith Ceb Atl Al Hap Lm Lp-l Indr Lor Glg Tars*]

1251. Bolk, L. Over de ligging en verschuiving van het foramen magnum bij de primaten. *Versl. gewone Vergad. Akad. Amst.*, 1909, 18, (1), 62-78. —On the position and displacement of the foramen magnum in the primates. *Proc. Acad. Sci. Amst.*, 1909, 12, (1), 362-377. [5f-5t: *Gr Pn Png Hyl Symp Prsb Clb C-p Mc Pp Pith Saim Ceb Atl Al Hap*]

1252. Bolk, L. Over de helling van het foramen magnum bij de primaten. (2^e mededeeling over de vergelijkende craniologie der primaten.) *Versl. gewone Vergad. Akad. Amst.*, 1909, 18, (2), 551-560. —On the slope of the foramen magnum in primates. (2nd paper on the comparative craniology of primates.) *Proc. Acad. Sci. Amst.*, 1909, 12, (2), 525-534. [4f-4t: *Gr Pn Png Hyl Symp Prsb Clb C-p Mc Pp Pith Saim Ceb Atl Al Hap Lm Pr-p*]

1253. Bolk, L. Über Lagerung, Verschiebung und Neigung des Foramen magnum am Schädel der Primaten. (Zehnter Beitrag zur Affenantomie.) *Z. Morph. Anthropol.*, 1915, 17, 611-692, pl. 23. [31f-15t: see 1251]

1254. Daubenton, [E. L.] Mémoire sur les différences de la situation du grand trou occipital dans l'homme et dans les animaux. *Hist. Acad. R. Sci. Paris*,* 1764, Mémoires, 568-575, pl. 16. Abstr.: *Histoire* 59-62.

1255.* Haberer, Albert. Über die 'Norma occipitalis' bei Mensch und Affe. Inaug.-Diss. München, Kastner & Lossen, 1899, 85 pp.

1256. Joseph, Gustav. Morphologische Studien am Kopfskelet des Menschen und der Wirbeltiere. Breslau: W. G. Korn, 1873, 75 pp. [+ Pn Png Hyl Prsb C-p Mc Pp Ceb Lag Atl]

1257.* Morselli, E. Sulla fossetta vermiana nei primati. *Atti. Soc. ligust. Sci. nat. geogr.*, 1890, 1, 200-204. Abstr.: *Monit. zool. ital.*, 1890, 1, 142-143.

See also: 823, 875, 997, 1075, 1082, 1089, 1126, 1145, 1162, 1163, 1165, 1271.

SPHENOID BONE

1258. Hartmann, E. Direction du canal optique chez l'homme et les singes. *Bull. Soc. Anthropol. Paris*, 1923, (7), 4, 33—53.

[++ 12t: Gr Pn Png Hyl Prsb C-p Mc Pp Mndr]

1259. Jazuta, K. Das Foramen spinosum als ein phylogenetisches Merkmal. *Anat. Anz.*, 1930, 70, 212—213.

[++ It: Gr Pn Png Hyl]

1260.* Spottel, Otto. Über Formverschiedenheiten der Flügelfortsätze des Keilbeins bei Menschen und Affen. Inaug.-Diss. (Phil.) München, E. Mühlthaler's K. Hof-Buchdr., 1896, 64 pp.

1261. Weber, A. L'orientation des ailes des apophyses ptérygoïdes chez les primates. *C. R. Soc. Biol., Paris*, 1905, 59, 225—227.

[Gr Pn Png Prsb C-p Mc Pp Ceb Atl]

1262. Weber, A. Le trou ovale du sphénoïde chez les singes et chez l'homme. *C. R. Soc. Biol., Paris*, 1907, 63, 236—238. [see 1261]

See also: 1089, 1150, 1163, 1181, 1187, 1188.

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[++ 10f-6t: Gr Pn Png Symph C-p Mc Atl Lm Tars]

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[Abstr.: Lm Lp-l Avh Nyct-c Prdct Glg Daub Tars]

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See also: 779, 997, 1018, 1089, 1150, 1179, 1180, 1188, 1193, 2462, 2464, 2470.

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[+ 15f-vnt: Png Hyl]

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[+ 42r: C-p Hap]

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[3f: Png]

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[+ 4f-3t-vnr—tabl. rés. lit.]

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[4f: Png C-p Ceb]

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[1f: C-p Ceb]

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[13f: Prsb C-p Mc Ceb]

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[2f: C-p Mc]

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[++ 6f: Pn]

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[+++ 39f-nt-74r: Gr Pn Png Hyl Clb C-p C-c Mc Pp Mndr Aot Ceb Atl Al Hap]

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[Png]

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[2f-31r: Mc]

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[If: Png]

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[++ 16f-150r: Pn]

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[1f-6r: Png]

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[++ 13f-t-49r: Gr Pn Png Hyl Prsb Clb C-p C-c Mc Pp Ceb Atl Al Hap]

See also: 997, 1085, 1089, 1145, 1150, 1151, 1160, 1161, 1162, 1165, 1179, 1276, 1301, 1308.

FRONTAL, ETHMOID, LACRYMAL & VOMER

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[Abstr.]

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[5f: Gr Pn Png Hyl Symp]

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[1f: Gr Pn]

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[++ 4f-2r: Prsb C-p Mc Pp]

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[++ 2f: Pn Png Hyl Nas C-p Mc Pp Aot Atl Al]

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[Lm Lp-l Hp-l Mr-c Pr-p Avh Indr Glg Daub Tars]

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[Lm Mr-c Chrg Lor Nyct-c Glg Tars]

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See also: 472, 1004, 1005, 1084, 1085, 1089, 1138a, 1150, 1162, 1164, 1173, 1201, 1213, 1214, 1217, 1238, 1314a.

Facial Bones

See also: 1085, 1087, 1353a, 1399, 1562.

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See also: 451, 1061a, 1066, 1084, 1138a, 1196a, 1233, 1308, 1400, 1470.

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[++ 15f-2t: Png C-p Pp Lag Al]

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[+ 16f-nr: Png Al]

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[4f-It: Png]

See also: 1061a, 1150, 1180, 1209, 1331.

MANDIBLE & OS HYOID

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[12f: Symph]

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[+ 54f: Anthropoids Pp]

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[++ Pn Png Mndr Atl]

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[++ 40f-10t-r: Pn Png †††]

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[+++ 16f: Hyl]

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[+++ Gr Png Mc Pp]

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[+ It: Gr Pn Png Hyl Pp Lm Indr]

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[++ 9f: Png]

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[++ 6f-3t-17r: Hyl Symph]

1338a. Miller, G. S., Jr. The jaw of the Piltdown man. *Smithson. misc. Coll.*, 1915, 65, no. 12, 31 pp., 5 pls.
[++ 1t-nr: Pn †††]

1339. Owen, [R.] Osteological contributions to the natural history of the chimpanzees (*Troglodytes*) and orangs (*Pithecius*).—No. V. Comparison of the lower jaw and vertebral column of the *Troglodytes gorilla*, *Troglodytes niger*, *Pithecius satyrus*, and different varieties of the human race. *Trans. zool. Soc. Lond.* 1851 [1862], 4, 89-115, pls. 31-36.
[Gr Pn Png]

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[++ 6f-nt: Gr Pn Hyl Prsb Clb C-p C-c Mc Cyn-p Pp Saim Ceb Al Hap Myst]

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[+ Pn Png Hyl Nas Mc Pp Al Lm]

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[+ 3t: Gr Pn Png]

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[++ 18f-nr: Gr Pn Png Hyl Prsb C-p Mc Pp Mndr Saim Ceb Atl Hap Lm Daub]

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[++ 13f-nr: Gr Png]

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[++ 59f-review: Biol. Zbl., 1902, 22, 298-310: Gr Pn Png Symph]

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[+ 2f: Gr Hyl Symph Mc]

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[Gr Pn Png Mc Tars]

See also: 327, 451, 488, 1058, 1061a, 1066, 1075, 1097a, 1138, 1314, 1353a, 1393, 1423, 1434, 1441, 1566, 3952, 3994.

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[++ 10f-4t-16r: Gr Png]

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[9f-13t-13r: Gr Pn Png Hyl Symph Prsb
Nas Clb C-p C-c Mc Thr-p Pp Aot
Cal-c Pith Chirop Saim Ceb Lag Atl
Al Hap Myst]

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[+ 16f 35r: Gr Pn Png Hyl]

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[+ 32r]

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[5f: 'Affe']

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[++ 19f-r: Gr Pn Png Mc Pp]

See also: 802, 1281, 1393, 1565, 1586.

The Teeth

GENERAL MORPHOLOGY

Comprehensive & General Studies

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[++ 9f-vnr: Gr Pn Png Hyl †††]

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[Hyl]

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Muscular System & Integument

MORPHOLOGY & ANOMALIES

Comprehensive & General Studies

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[+ 34f: *Mc Cyn-p Lm*]

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See also: 171, 176, 178, 198, 199, 203, 213, 217, 221, 227, 255, 258, 284, 765, 781, 790, 803, 1492a, 1493, 1596, 2359a.

QUANTITATIVE MORPHOLOGY

See also: 182, 938, 1061a, 1491a, 1491b, 1519a, 1519b, 1601, 1641, 1676, 1693a, 1699, 1705b, 1797a.

MUSCLES OF THE BACK

(*incl. extensors of the tail*)

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[+++ 31f-nt-46r-Polish: *Gr Pn Png Hyl Symp Prsb C-p Mc Pp Saim Ceb Atl Hap Leon-c Lm*]

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[disc. of no. 1523c: *Mc*]

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- See also: 830, 831, 872, 1271, 1503, 1510, 1514, 1585, 1643, 1645, 1646, 1649, 1650, 1653.

MUSCLES OF THE HEAD: FACIAL GROUP

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[++ 3f-3r: *Lp-l Pr-p*]

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[*Pn Png C-p Mc Lor*]

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[*Lm Lp-l Mer-c Pr-p Avh Daub Tars*]

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[6f-13r: *Gr Pn Png*]

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See also: 180, 227, 480, 1566.

MUSCLES OF THE HEAD: CRANIOMANDIBULAR GROUP

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[5f-vnr: *Aot Pith Saim Ceb Lag Atl Al Hap Leon-c*]

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[10f: *Hyl Clb Atl Hap Oed-m*]

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[3f: *Thr-p Ceb*]

See also: 180, 1061a, 1075, 1343, 1347, 1582, 2486.

MUSCLES OF THE NECK

(incl. hyoidean muscles)

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[+ *Pn C-p Lor*]

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[+ 27f-2t: *Hyl Prsb C-p Atl Hap Lm Nyct-c*]

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[++ 7f-15t-167r: *Gr Pn Png*]

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[5f: *Gr Pn Png Hyl Prsb Mc Ceb*]

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[If-nr: *Mc*]

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[5f: *Mc*]

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[Png]

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[+ 3f: *Gr Png Hyl*]

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[If: *Pn*]

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[++ 9f-12r: *Gr Pn Png*]

See also: 144, 488, 509, 562, 1270, 1271, 1343, 1503, 1514, 1530, 1532, 1536, 1565, 1566, 1569, 1570, 1595, 1617, 2381.

MUSCLES OF THE THORAX

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[If: *Symp*]

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[2f: *Prsb*]

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[+ 9f: Gr C-p Pp]

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[++ Png Prsb Mc Pp Hap Nyct-c]

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[+ 12f-11r: C-p C-c Mc Pp Hap]

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[+++ 1f]

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[++ vnt: Gr Pn Png Hyl C-p-id Platyr Lm-oid]

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[++ 8f-3t-nr: Pn]

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[++ 27f-56r: Gr C-p Ery-c Mc Pp]

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[++ Gr Pn Png Hyl C-p C-c Mc Pp Atl Hap Lm Daub]

See also: 143, 309a, 1501, 1503, 1510, 1514, 1520, 1530, 1531, 1536, 1579, 1580, 1608, 1610, 1611, 1614, 1615, 1617, 1643, 1649, 1653.

MUSCLES OF THE ABDOMEN

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[+ 11f-24r: C-p C-c Mc Hap]

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[+ 16f-18r: Mc Pp]

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[7f: Lm Chrg Pr-p Nyct-c Prdt Glg]

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[3f-1t: Lm Chrg Pr-p Nyct-c Daub]

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[++ 6f: Prsb C-p Ceb Brchyt Atl]

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[Abstr.]

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[Hyl Symph]

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[11f-t: Gr Pn Png Hyl Symph Prsb Nas Mc Pp Mndr Avh Lor Prdt Glg]

1616. Seydel, O. Über die Zwischensehnen und den metameren Aufbau des M. obliquus thoraco-abdominalis (abdominis) externus der Säugetiere. *Morph. Jb.*, 1892, 18, 544—604, pls. 20—21.
[++ 24f: Gr Pn Png Hyl Symph Mc Mndr Ceb Hap Lm Avh Lor Prdt Glg Daub]

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[+++ 17f-nt: Gr Pn Png C-p Thr-p Pp Saim Ceb Atl Hap Leon-c Lm]

1617. Tschachmachtschjan, H. Über die Pectoral- und Abdominalmuskulatur und über die Scalenus-Gruppe bei Primaten. *Gegenbaurs Jb.*, 1912, 44, 297-370. [46f-10t-nr: *Symp*
Prsb C-p Ery-c Mc Pp Ceb Atl Hap Lm Nyct-c Glg]

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[+ 7f-5t: *Prsb C-p Ery-c Mc Pp*]

See also: 293, 923, 1510, 1514, 1531, 1601, 1602, 1612, 1621, 1684a, 1692, 2367.

MUSCLES OF THE PERINEUM

(*incl. flexors of the tail*)

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1620. von Eggeling, H. Zur Morphologie des Beckenbodens. *Gegenbaurs Jb.*, 1929, 63, 243-259. [+ 10f-nr: *Png*]

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[3f-24r: *Glg Nyct-c Prdct*]

1623. Forster, A. Note sur l'adaptation de la musculature anale chez le chimpanzé. *Bull. Soc. anat. Paris*, 1923, 93, 286-291. [2f: *Pn*]

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1625. Forster, A. Remarques sur les possibilités d'adaptation de la musculature anale. III. Chez l'atèle. *Arch. Anat., Strasbourg*, 1926, 6, 109-121. [3f: *Atl*]

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[++ nt-r: *Pn Png Mc Pp Mndr Ceb*]

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[+ 5f-63r: *Pn*]

1629. Thompson, P. On the arrangement of the fasciae of the pelvis and their relationship to the levator ani. *J. Anat., Lond.*, 1901, 35, 127-141, pls. 12-16. [++ *Png Mc Hap*]

1630.* Wolff, F. Vergleichend anatomische Untersuchungen über die Schwanzmuskulatur von *Hapale jacchus*, *Cebus macrocephalus* und *Ateles ater*. Hannover & London, 1908, 31 pp., 6 pls. [*Ceb Atl Hap*]

1631. Zuckerkandl, E. Zur Morphologie des Musculus ischiocaudalis. *S. B. Akad. Wiss. Wien., Abt. 3*, 1900, 109, 661-671, 2 pls.; 1901, 110, 47-53, 1 pl. [+ *Lm*]

See also: 659, 662, 664, 695, 710, 923.

APPENDICULAR MUSCULATURE

Comprehensive & General Studies

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1633. Barnard, W. S. Observations on the membral musculation of *Simia satyrus* and the comparative myology of man and the apes. *Proc. Amer. Ass. Adv. Sci.*, 1875, 24, B, 112-144. [2pl-r: *Png*]

1634. Boyer, Esther L. The musculation of the inferior extremity of the orang-utan, *Simia satyrus*. *Amer. J. Anat.*, 1935, 56, 193-256. [15f-r: *Png*]

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1639. Hepburn, D. The comparative anatomy of the muscles and nerves of the superior and inferior extremities of the anthropoid apes. Part I. *J. Anat., Lond.*, 1892, 26, 149-186, pl. 3. [3f: *Gr Pn Png Hyl*]

1640. Hepburn, D. The comparative anatomy of the muscles and nerves of the superior and inferior extremities of the anthropoid apes. Part II. *J. Anat., Lond.*, 1892, 26, 324-356, pl. 9. [Gr *Pn Png Hyl*]

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[7r: Png]

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1644. Pira, A. Beiträge zur Anatomie des Gorilla. Vergleichend-anatomische Studien. I. Das Extremitätenmuskelsystem. *Gegenbaurs Jb., 1914, 48, 167-238.* [3f-r: Gr]

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1646. Primrose, A. The anatomy of the orang outang. *Univ. Toronto Stud. Anat., 1900, no. 1, 94 pp., 10 pls.* [nr: Png]

1647. Senft, Max. *Myologie der Vorderextremitäten von Hapale jacksoni, Cebus macrocephalus und Ateles ater.* Inaug.-Diss. (Phil.) Bern, Ambruster, Söhne, 1907, 42 pp., 21 pls.

[42r: Ceb Atl Hap]

1648. Sullivan, W. E. & Osgood, C. W. The musculature of the superior extremity of the orang-utan, *Simia satyrus*. *Anat. Rec., 1927, 35, 193-239.* [1f: Png]

See also: 170, 179, 194, 245, 1501, 1503, 1507, 1523, 1529, 1582, 1595, 1597, 1653, 3963.

MUSCLES OF SHOULDER & ARM

1649. Campbell, B. The shoulder musculature of the platyrhine monkeys. *J. Mammal., 1937, 18, 66-71.* [1f-7r: Aot Saim Ceb Lag Atl Al Oed-m]

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[nr: Pn Hyl Prsb C-p Mc Pp Aot Saim Ceb Atl Al Nyct-c Prdct Glg Daub Tars]

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[10pl-r: Gr Pn Png Hyl C-p Mc Pp Ceb Lag Atl Lm Glg Tars]

See also: 144, 187, 309a, 923, 1506, 1606.

MUSCLES OF FOREARM & HAND

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[2f: Lm Hp-l Pr-p Indr Lor Nyct-c Prdct Glg Daub Tars]

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[1f: Gr Pn Png Hyl Nyct-c]

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[+ 4t: Png C-p Mc Mndr Ceb Hap Leon-c Nyct-c]

See also: 899, 1692, 1706, 1757, 2379, 2486a.

MUSCLES OF THE HIP & THIGH

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[Lm]

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[+ 21f-6t: Mc]

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[+ It]

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[If: Gr Png Pn Hyl Prsb Clb C-p Mc Pp Ceb Lag Hap Lm]

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[4f-Finn. with Gr. abstr.: Pn Hyl Prsb C-p Mc Pp Saim Ceb Atl Al Hap Lm Lp-l Hp-l Pr-p Indr Daub Lor Nyct-c Prdct Glg]

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See also: 318, 899, 930, 938, 958, 959, 1590, 1607, 1665.

MUSCLES OF LEG & FOOT

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[+++ 8f-nr: Gr Pn Png Hyl Prsb C-p Mndr Ceb Lor Nyct-c Tars]

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[+++ 2f-t-60r: see no. 1693a.]

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[+++ 14f: Gr Pn Png Hyl C-p Mc Pp Lm Glg]

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[+++ 53f-5t-r: Gr Pn Png Hyl Symph Prsb Clb C-p Ery-c C-c Mc Pp Saim Ceb Al Hap Lm Nyct-c Glg]

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[27f-4t-vnr: Gr Pn Png Hyl Mc Prsb Ceb Hap Glg]

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[+++ 3t-7r: Pn Clb C-p Al Hap Lor]

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[++ Gr Pn Png Hyl]

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See also: 181, 317, 318, 319, 782, 901, 968, 975, 976, 985, 1654, 1657, 1662, 1669, 1690, 2486a.

THE SKIN & ITS APPENDAGES

THE SKIN

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[6f: Pn Png Hyl]

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[+ 2f-1t-20r: Pn Png]

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[4f-4r: Pp]

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[+ 8f-39r: Mc]

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[Hungarian: Png]

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[+++ 9f-1t-16r: Pn Png Clb C-p Mc Pp Cal-c Ceb Atl Al]

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[Gr Png Hyl Mc Pp Lm Lor]

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[4f-22r: Mc]

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[+ 14t: Mc]

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[+ 12f: Mc]

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Nervous System & Sense Organs

The Brain as a Whole

GENERAL MORPHOLOGY

Comprehensive & General Studies

PRIMATES IN GENERAL

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[++ 31f-t: Pn Hyl C-p Mc Pp Cal-c Saim Ceb Atl Hap Myst Lm Pr-p Avh Indr Daub]

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Morphology of the brain PONGIDAE & HYLOBATIDAE

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[+ Prsb C-p Pp]

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[+ 56f: Mc]

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See also: 144, 217, 376, 406, 407, 408, 409, 1839, 1848, 1991a, 2165a, 2218, 2231, 2997, 3004, 3007.

The Cerebral Cortex

FRONTAL LOBES

MORPHOLOGY—GYRI & SULCI

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[Gr Pn Png Hyl Pp]

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See also: 1802, 2029, 2107, 2296.

Frontal lobes

CYTO- & MYELOARCHITECTURE

2019. von Bonin, G. Studies of the size of the cells in the cerebral cortex. II. The motor area of man, *Cebus* and cat. *J. comp. Neurol.*, 1938, 69, 381-390.
[+ 2f-5t-10r: Ceb]

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[+++ 52f-It-nr: Gr Pn Symph C-p Ery-c Mc Pp Mndr Ceb Hap Lm Chrg Indr]

2021. Bucy, P. C. Frontal lobe of primates: relation of cyto-architecture to functional activity. *Arch. Neurol. Psychiat., Chicago*, 1935, 33, 546-557.
[6f-It-32r: Pn Hyl Mc Pp Ceb]

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[10pl-24r: Pn Png Mc Pp Lag Atl]

2023. Kreht, H. Zur Volumengröße der architektonischen Felder 55-66 einiger menschlicher Gehirne im Vergleich zu der des Schimpansen und Orang-Utan. *Z. mikr.-anat. Forsch.*, 1936, 39, 409-414.
[++ It: Pn Png]

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[30f: Pn Png]

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[3f-3t: Pn Hyl C-p Ery-c Saim Ceb Hap]

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[3f: Mc]

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[3f: Hyl]

2028. Nañagas, J. C. Anatomical studies on the motor cortex of *Macacus rhesus*. *J. comp. Neurol.*, 1922, 35, 67-96.
[10f-16r: Mc]

2029. von Niessl-Mayendorf, Erwin. *Vom Lokalisationsproblem der artikulierten Sprache*. Leipzig: J. A. Barth, 1930, viii, 186 pp.
[+ 70f: Gr Pn Pp]

2030. Strasburger, E. H. Die myeloarchitektonische Gliederung des Stirnhirns beim Menschen und Schimpansen. II. Teil. Der Faserbau des Stirnhirns beim Schimpansen. *J. Psychol. Neurol., Lpz.*, 1937, 47, 565-606.
[37f-7t-17r: Pn]

See also: 257, 1918, 3054, 3066.

Frontal lobes

PROJECTIONS—PYRAMIDAL TRACT

2031. Beevor, C. E. & Horsley, V. On the palio-tectal or cortico-mesencephalic system of fibres. *Brain*, 1902, 25, 436-443, 5 pls.

[++ Mc]

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[1f-23r: Pn]

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[++ 3f: Mc]

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PARIETAL, OCCIPITAL & TEMPORAL LOBES MORPHOLOGY—GYRI & SULCI

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See also: 1815, 1844, 2012, 2017, 2111, 2114, 2115, 2118, 2133.

Parietal, occipital & temporal lobes

CYTO- & MYEOARCHITECTURE

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See also: 2025, 2026, 2065, 2213.

Parietal, occipital & temporal lobes

CORTICOFUGAL PROJECTIONS

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See also: 257, 1940, 2043, 2050, 2053, 2207, 2212, 2213.

THE INSULA MORPHOLOGY

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See also: 1802, 2015, 2017, 2064, 2149, 2150.

The insula

CYTO- & MYELOARCHITECTURE

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2121. Ngowyang, G. Beschreibung einer Art von Spezialzellen in der Inselrinde zugleich Bemerkungen über die v. Economoschen Spezialzellen. *J. Psychol. Neurol., Lpz.*, 1932, 44, 671-674. [+ 2f: Pn]

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THE RHINENCEPHALON
MORPHOLOGY, CYTO- &
MYELOARCHITECTURE

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See also: 1800, 1805, 1812, 1830, 1929, 2121a, 2152.

The rhinencephalon

FIBER TRACTS

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See also: 2184.

CORPUS CALLOSUM, ASSOCIATION FIBERS & INTERNAL CAPSULE

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MORPHOLOGY, CYTOARCHITECTURE & TRACTS

Comprehensive & General Studies

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THALAMUS & GENICULATE BODIES

NUCLEI & CYTOARCHITECTURE

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AFFERENT & EFFERENT PROJECTIONS

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AFFERENT & EFFERENT PROJECTIONS

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See also: 2032, 2102, 2174, 2182, 2183, 2187, 2189, 2243.

MEDIAL GENICULATE BODY:
AFFERENT & EFFERENT PROJECTIONS

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See also: 202, 651, 1961, 3193a.

EPITHALAMUS—PINEAL GLAND

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[+ 62r: *Hap*]

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Spinal cord

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[13f-5r: Mc]

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[+++ 12f: Mc]

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[++ 9f: Mc]

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[+ 2pl-1t-26r: monkey]

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[+ 3f-r: Png Pp Lm]

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[++ 11f: C-p C-c Cyn-p]

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[+ 2f-nt-r: Png Hyl Mc Pp Lm]

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[+++ Abstr.]

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[Pn]

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[It: Pn]

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[Pn]

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Spinal cord

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[Abstr.: Mc]

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Spinal cord

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CERVICO-BRACHIAL PLEXUS & NERVES OF NECK & UPPER EXTREMITY

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[39f-nt-nr: Pn Png Hyl Nas Clb C-p Cyn-p Mndr Aot Saim Ceb Atl Al Leon-c Lm Lp-l Pr-p Prdct]

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See also: 293, 309a, 415, 898, 1520, 1521, 1522, 1530, 1531, 1559, 1582, 1591, 1592, 1593, 1614, 1615, 1639, 1652, 2345, 2345a, 2348, 2349a, 2357, 2359a, 2362, 2366, 2407.

LUMBO-SACRAL PLEXUS & NERVES OF TRUNK & LOWER EXTREMITY

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[26f-12r: Gr Pn Png Mc]

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[13f: Pp Mndr Hap Prdct]

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**SYMPATHETIC NERVES, GANGLIA
& PLEXUSES**

(*incl. ganglia of mixed character*)

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[+ 11f: Pn Pp]

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[8f: Gr]

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[++ 26f-37r: Gr Png Hyl Mc Pp Atl Lm]

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[+ 16f-11r: Gr Png Hyl Mc Pp Ceb Hap Nyct-c Lm]

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[+ 21f-r: C-c Lm]

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[++ 16f-6r: Mc]

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[+ 2t-22r: Mc Pp Ceb]

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[+ 8f: Mc]

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[+ 3f: Mc]

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[7f-7r: Mc]

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[8f-5t-74r: Prsb C-p C-c Mc Pp Mndr Hap]

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[2f: Mc]

See also: 405, 462, 618a, 619a, 654, 765, 1488, 2314a, 2355, 2356, 2360, 2367, 2384, 2416, 2417, 2418, 2974, 2976.

Sense Organs

THE EYE

(*excl. retina*)

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[+ 9f-12t: *Affe Lor*]

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[++ *Mc*]

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[+ 2f: *C-c Glg*]

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[+++ 11f:
Png Prsb C-p C-c Mc Pp Aot Saim Ceb Atl Al Hap Leon-c Lm Nyct-c]

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[+ 3f: *monkey*]

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[+ 7f: *C-p Atl Hap Lm*]

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[+ 15f-45r:
Gr Pn Png Hyl Mc Pp Daub]

See also: 131a, 227, 265, 327, 1206, 2444, 2445, 2446, 2446a, 2996.

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[+ 10f-nt: *Symp Prsb Mc Pp Atl*]

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[++
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[23f-nr: *Pn Png Hyl C-p Ery-c C-c Mc Pp Mndr Aot Ceb Brchy Hap Lm Chrg Lor Nyct-c Glg Tars*]

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[+++ *singe*]

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[8f-t-r: *Aot Saim Hap*]

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[*Pn Mc*]

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[12f-nr: *Pn Mc*]

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[*Mc*]

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[+ 5f-3t-45r: *Gr*]

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THE EAR—MIDDLE & INTERNAL EAR

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See also: 1265, 1269, 1274, 1279.

THE EAR—EXTERNAL EAR

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Gr Pn Png Hyl Symph Prsb Nas Clb
C-p C-c Mc Pp Saim Ceb Atl Al Hap
Leon-c Lm Nyct-c Prdct Glg Tars]

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Nas Mc Pp Atl Al Hap Lm Tars]

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Nyct-c Daub]

See also: 112, 198, 243, 323, 327, 2466.

OLFACTOORY & GUSTATORY ORGANS

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See also: 105, 106, 471, 472, 565, 577, 578, 582.

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See also: 2371, 2380, 2979.

Physiology & Pharmacology

Blood & Circulation; Respiration

CELLS OF THE BLOOD

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Hyl Prsb C-c C-p Ery-c Mc Pp Mndr Saim Ceb Atl Hap Leon-c Lm Lor Nyct-c

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Digestion, Nutrition & Metabolism; Kidney and Water Balance

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See also: 514, 2296, 2573, 2574, 2620, 3086, 3146, 3147, 3148, 3194, 3197, 3200.

PANCREAS

See also: 2643, 2646, 2691, 2692, 2702.

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[2t-15r: monkey]

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[+ 3f-8t-8r: monkey]

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See also: 2610, 2611.

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See also: 2610, 2611.

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See also: 2610, 2611.

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- See also: 2607, 2681a, 2682a, 2691, 2692, 2699, 2701, 2702, 3193, 3198a.

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See also: 2607, 2642, 2648, 2967aa, 3198a.

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[++ Pn Png]

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[1t: Pn C-p Mc Pp]

See also: 2607, 2967a, 2967b, 2982, 4012.

MINERAL METABOLISM

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[2t: Mc]

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[++ 7t-Russ. with Gr. abstr.: Pp]

See also: 2636, 2639.

KIDNEY & WATER BALANCE

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[3t-19r: Pn Png Hyl Pp]

See also: 2579, 2642, 2648, 2649, 2650, 2651, 2683, 2684, 2705, 2759, 2774, 2834, 3193, 3193a, 3195.

Endocrine Glands

THYROID GLAND

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See also: 2636, 2638, 2681.

PARATHYROID GLAND

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See also: 2638, 2671, 2672, 2675, 2677, 2678.

THYMUS

See also: 2668, 2833.

ADRENAL GLAND

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See also: 2584, 2793, 2817.

ADRENALINE

See also: 2581, 2589, 2682c, 2859, 3001, 3254, 3271.

PITUITARY GLAND:

PARS INTERMEDIA & POSTERIOR

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See also: 2600, 2859, 3001, 3193a, 3195, 3196a.

PITUITARY GLAND:

PARS ANTERIOR

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See also: 2646, 2708, 2710, 2715, 2737, 2803, 2804, 2828, 2849, 2899, 2900.

SERUM & URINE GONADOTROPHIC SUBSTANCES

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OVARY & OVULATION

(*incl. periodic fertility*)

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THE OVARY:

OVARIECTOMY & TRANSPLANTATION

See also: 732, 2718, 2789, 2790, 2793, 2802, 2808, 2811, 2821, 2853, 2855, 2872, 2891, 2892, 2896, 2898.

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Cerebrum & Cerebral Cortex

GENERAL & COMPREHENSIVE

(incl. methodology)

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See also: 2255a.

CORTICAL EXCITABILITY & ELECTRICAL ACTIVITY

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Cortical Localization: Psychomotor Functions FRONTAL LOBES—STIMULATION

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Psychomotor functions

FRONTAL LOBES—ABLATION

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Psychomotor functions

FRONTAL LOBES—ASSOCIATION AREAS

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Psychomotor functions

OCCIPITAL, PARIETAL & TEMPORAL LOBES

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See also: 2266, 2267, 2301, 2994, 3019, 3045, 3121, 3207, 3303, 3245.

MEDULLA & PONS

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[9f-12r: Mc]

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[Abstr.: Mc]

See also: 3073, 3083, 3087.

Spinal Cord

ASCENDING & DESCENDING TRACTS

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[4f-25r: Mc]

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See also: 2284, 2320, 3241.

SPINAL TRANSECTION & SPINAL "SHOCK"

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[Abstr.: Mc]

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[4f-4t-16r: Pn C-p Ery-c Mc Pp]

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[++ 1f-t: Mc]

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[1t-29r: Mc]

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[3f-2t-9r: C-p Mc Pp]

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[+ 5f-nt-10r: Mc]

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[++ Mc]

See also: 2320, 2372, 2818, 2819, 2820, 2821, 2989, 3097, 3249.

SPINAL REFLEXES & REFLEX ACTION IN GENERAL

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[9r: Png C-c Mc Pp Lm]

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[++ 1f: Mc]

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[7f: Mc]

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[+++ 2f-1t-8r: Mc]

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[+ 2f-5t-20r: Pn C-p C-c Mc Atl]

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[++ 1f: Mc]

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[monkey]

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[monkey]

See also: 2372, 2991, 2992, 3019, 3041, 3083a, 3247.

Sense Organs

THE EYE—RETINA & OPTIC NERVE

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[+ vnf-vnr: Mc]

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[++ 1f: Pn Affel]

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[+ 7f-10t: C-p]

See also: 3206, 3336, 3342.

THE EYE—PUPIL, ACCOMMODATION & DIOPTERICS

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See also: 2184, 2243, 2962, 2962a, 3042, 3121, 3122, 3123, 3124, 3125, 3134, 3139, 3201, 3202, 3208, 3209, 3257.

THE EYE—MOVEMENTS OF THE EYES & LIDS

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See also: 2184, 2962, 2963, 3042, 3046, 3048, 3067, 3086, 3121, 3122, 3123, 3124, 3125, 3126, 3130, 3131, 3133, 3136, 3137, 3138, 3177, 3202, 3205, 3206, 3228, 3229, 3257, 3448, 3880.

COCHLEAR & LABYRINTHINE FUNCTIONS

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See also: 3017a, 3046, 3083a, 3121, 3232, 3233.

CUTANEOUS & MUSCLE SENSIBILITY

See: 1544, 1763, 2284, 2370, 2372, 2979.

SYMPATHETIC & PARASYMPATHETIC NERVOUS SYSTEM

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See also: 2372, 2589, 2590, 2821, 2883, 2973, 2977, 2991, 3271.

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[2f- It-8r: Pn]

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[+ Mc]

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[+ 12f: monkey]

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[2f-24r: C-c]

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[++ Affe]

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[+ singel]

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[++ 106f-64r: Mc]

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[+ 2pl: Mc]

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[++ 4f: Affe]

3291. Paterson, A. S. & Richter, C. P. Action of scopolamine and carbon dioxide on catalepsy produced by bulbocapnine. *Arch. Neurol. Psychiat.*, Chicago, 1933, 29, 231-240.
[3f: Mc]

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[+++ 3f-It: Mc]

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[+ 7t-35r: Mc]

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[10r: Mc]

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[1f-It-17r: Mc]

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[It-6r: Mc]

Psychobiology



Experimental Psychobiology

REVIEWS, TEXTBOOKS, MONOGRAPHS, &c.

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3304. Hempelmann, Friedrich. *Tierpsychologie vom Standpunkte des Biologen*. Leipzig: Akademische Verlagsgesellschaft, 1926, viii, 676 pp., 1 pl. [+ 134f-vnr]

3305. Hobhouse, Leonard Trelawney. *Mind in evolution*. London: Macmillan & co., 1915, 2nd ed., xix, 469 pp. [+ f-t: Pn Png Mc Mndr]

3306. Holmes, Samuel Jackson. *The evolution of animal intelligence*. New York: H. Holt & co., 1911, v, 296 pp. [+ 18f-nr]

3307. Schiche, E. Die Psychologie der Anthroponiden im Lichte einiger neuerer Arbeiten. *Z. angew. Psychol.*, 1921, 18, 343-355; 1923, 22, 292-300. [3f]

3308. Spence, K. W. Experimental studies of learning and the higher mental processes in infra-human primates. *Psychol. Bull.*, 1937, 34, 806-850. [+++ 161r]

3309. Warden, Carl J., Jenkins, Thomas N. & Warner, Lucien H. *Comparative psychology; a comprehensive treatise. Vertebrates*. New York: Ronald Press co., 1936, x, 560 pp. [80f-vnr]

3310. Yerkes, R. M. Mental evolution in the primates. In: *Human biology and racial welfare*. Edmund V. Cowdry, ed., New York: Paul B. Hoeber, 1930, xviii, 612 pp.

3311. Yerkes, R. M. & Child, Margaret S. Anthropoid behavior. *Quart. Rev. Biol.*, 1927, 2, 37-57, 2 pls. [81r: Gr Pn Png Hyl]

3312. Yerkes, Robert M. & Yerkes, Ada W. *The great apes. A study of anthropoid life*. New Haven: Yale University Press, 1929, xix, 652 pp. [172f-vnr: Gr Pn Png Hyl Symph]

COMPREHENSIVE EXPERIMENTAL MONOGRAPHS, &c.

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3314. Kinnaman, A. J. Mental life of two *Macacus rhesus* monkeys in captivity. *Amer. J. Psychol.*, 1902, 13, 98-148, 173-218. [11f-10t-nr: Mc]

3315. Klüver, Heinrich. *Behavior mechanisms in monkeys*. With an introduction by K. S. Lashley. Chicago: University of Chicago Press, 1933, xvii, 387 pp. [52f-69t-309r: Mc Saim Ceb Atl Lm]

3316. Kuroda, A. Mental life of a *Macacus* monkey. *Jap. J. Psychol.*, 1926, 6, 148-174. [Mc]

3317. Shepherd, W. T. Some mental processes of the rhesus monkey. *Psychol. Monogr.*, 1910, 12, no. 5, 61 pp. [3f-10t-16r: Mc]

3318. Thorndike, E. L. The mental life of the monkeys. *Psychol. Monogr.*, 1901, 3, no. 5, 57 pp. [5f-4t: Ceb]

3319. Yerkes, R. M. The mental life of monkeys and apes: a study of ideational behavior. *Behav. Monogr.*, 1916, 3, no. 1, 145 pp., 6 pls. [5f-10t-nr: Png Mc]

3320. Yerkes, R. M. The mind of a gorilla. *Genet. Psychol. Monogr.*, 1927, 2, 1-193, 9 pls. [34r: Gr]

3321. Yerkes, R. M. The mind of a gorilla: Part II. Mental development. *Genet. Psychol. Monogr.*, 1927, 2, 375-551. [15pl-5r: Gr]

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METHODOLOGY & APPARATUS

3323. Crawford, M. P. A behavior rating scale for young chimpanzees. *J. comp. Psychol.*, 1938, 26, 79-92. [4t-6r: Pn]

3324. Fischel, W. Methoden zur psychologischen Untersuchung der Wirbeltiere. *Handb. biol. ArbMeth.*, 1932, Abt. 6, Teil D, 233-338. [+ 48f]

3325. Foley, J. P. An apparatus for restraining monkeys and other lesser primates. *Amer. J. Psychol.*, 1935, 47, 312-315. [++ 3f]

3326. Grether, W. F. A new spectral color apparatus for studies of primate color vision. *J. gen. Psychol.*, 1935, 12, 450-456. [2f-11r]

3327. Klüver, H. A tachistoscopic device for work with sub-human primates. *J. Psychol., Provincetown*,* 1935, 1, 1-4. [+ 1f]

3328. Klüver, H. Use of vacuum-tube amplification in establishing differential motor reactions. *J. Psychol., Provincetown*,* 1935, 1, 45-47. [+ 1r]

3329. Klüver, H. An auto-multi-stimulation reaction board for use with sub-human primates. *J. Psychol., Provincetown*,* 1935, 1, 123-127. [+ 2f]

3330. Köhler, W. Die Methoden der psychologischen Forschung an Affen. *Handb. biol. Arb-Meth.*, 1932, Abt. 6, Teil D, 69-120.

3331. Yerkes, R. M. Primate coöperation and intelligence. *Amer. J. Psychol.*, 1937, 50, 254-270. [r: Pn]

See also: 3339, 3334, 3347, 3445.

Receptive Capacities

PRIMARY VISUAL CAPACITIES

(brightness discrimination, color vision, visual acuity, flicker, &c.)

3332. Bierens de Haan, J. A. Versuche über den Farbensinn der Affen. *Tijdschr. ned. dierk. Ver.*, 1925, (2), 19, 71-74. [cf. 3333: Mc]

3333. Bierens de Haan, J. A. Experiments on vision in monkeys. I. The colour-sense of the pigtailed macaque (*Nemestrinus nemestrinus* L.). *J. comp. Psychol.*, 1925, 5, 417-453. [2f-6t-r: Mc]

3334. Bierens de Haan, J. A. & Frima, Margareta J. Versuche über den Farbensinn der Lemuren. *Z. vergl. Physiol.*, 1930, 12, 603-631. [8f-11t-20r: Lm]

3335. Brecher, G. A. Die Verschmelzungsgrenze von Lichtreizen beim Affen. *Z. vergl. Physiol.*, 1935, 22, 539-547. [2f-1t-nr: C-c]

3336. Brecher, G. A. Die subjektiven Helligkeitswerte des Spektrums beim Affen. *Z. vergl. Physiol.*, 1936, 23, 771-780. [4f: C-c]

3337. Crawford, M. P. Brightness discrimination in the rhesus monkey. *Genet. Psychol. Monogr.*, 1935, 17, 72-162. [11f-11t-20r: Mc]

3338. Dahl, F. Versuche über den Farbensinn bei einer Meerkatze. *Zool. Jb., Abt. 1*, 1907, 25, 329-338. [C-p]

3339. Johnson, H. M. Visual pattern-discrimination in the vertebrates—I. Problems and methods. *J. Anim. Behav.*, 1914, 4, 319-339. [6f]

3340. Johnson, H. M. Visual pattern-discrimination in the vertebrates—II. Comparative visual acuity in the dog, the monkey and the chick. *J. Anim. Behav.*, 1914, 4, 340-361. [+ 4t: Ceb]

3341. Johnson, H. M. Visual pattern-discrimination in the vertebrates—III. Effective differences in width of visible striae for the monkey and the chick. *J. Anim. Behav.*, 1916, 6, 169-188. [++ 6t-1f: Ceb]

3342. Katz, D. & Katz, Rosa. Behaviour of monkeys under light of poor visibility. *Proc. zool. Soc. Lond.*, 1937, A, 107, 183-186. [C-p Mc Lag]

3343. Koehler, W. Die Farbe der Sehdinge beim Schimpanse und beim Haushuhn. *Z. Psychol.*, 1917, 77, 248-255. [+++ 1r: Pn]

3344. Maison, G. L. Determination of the visual power of each eye in animals. *Science*, 1936, n.s., 84, 463. [monkey]

3345. Spence, K. W. Visual acuity and its relation to brightness in chimpanzee and man. *J. comp. Psychol.*, 1934, 18, 333-361. [+++ 4f-5t-36r: Pn]

3346. Trendelenburg, W. & Schmidt, I. Untersuchungen über das Farbensystem des Affen. (Spektrale Unterschiedsempfindlichkeit und spektrale Farbenmischung bei Helladaptation.) *Z. vergl. Physiol.*, 1930, 12, 249-278. [4f-9t: Mc]

3347. Watson, J. B. Some experiments bearing upon color vision in monkeys. *J. comp. Neurol.*, 1909, 19, 1-28, 1 pl. [3f-6t: Mc Ceb]

See also: 3155, 3156, 3157, 3159, 3160, 3163, 3165, 3166, 3314, 3315, 3317, 3326, 3352, 3356, 3361, 3361b, 3362, 3367, 3385, 3386, 3411, 3453, 3461.

SECONDARY VISUAL PROCESSES

(size, form, relative vs. absolute discrimination, generalization & abstraction)

3347a.* von Allesch, G. J. Zur nichteuclidischen Struktur des phänomenalen Raumes (Versuche an Lemur mongoz mongoz L.). Jena: G. Fischer, 1931, ii, 153 pp. [Lm]

3348. Baley, S. Le comportement des enfants et des singes inférieurs en présence des objets placés sur un support. *Acta psychol., The Hague*, * 1935, 1, 30-38. [+ Pn C-c Mndr Lm]

3349. Bierens de Haan, J. A. Über Wahrnehmungskomplexe und Wahrnehmungselemente bei einem niederen Affen (*Nemestrinus nemestrinus*) (zugleich Versuche über das Sehen der Affen II). *Zool. Jb., Abt. 3*, 1925, 42, 272-306. [5f-4t: Mc]

3350. Bierens de Haan, J. A. Der relative Wert von Form- und Farbenmerkmalen in der Wahrnehmung des Affen (zugleich: Versuche über das Sehen von Affen III). *Biol. Zbl.*, 1925, 45, 727-734. [2t: Mc]

3351. Bierens de Haan, J. A. Versuche über das Sehen der Affen. IV. Das Erkennen gleichförmiger und ungleichförmiger Gegenstände bei niederen Affen. V. Erkennen Affen in zweidimensionalen Abbildungen ihnen bekannte Gegenstände wieder? *Z. vergl. Physiol.*, 1927, 5, 699-729. [9f-5t-16r: C-p Mc]

3352. Bierens de Haan, J. A. Über Wahl nach relativen und absoluten Merkmalen. (Versuche an Affen und Bienen.) *Z. vergl. Physiol.*, 1928, 7, 462-487. [+ 4f-4t-r: Mc]

3353. Buytendijk, F. J. J. & Révész, G. L'importance spéciale du sens de la vue dans les phénomènes de reconnaissance chez les singes inférieurs. *Arch. néerl. Physiol.*, 1923, 8, 14-19. [Pn Png Pp Mndr Ceb]

3354. Gellerman, L. W. Form discrimination in chimpanzees and two-year-old children. I. Form (triangularity) *per se*. *J. genet. Psychol.*, * 1933, 42, 3-27. [++ 3f-3t-15r: Pn]
3355. Gellerman, L. W. Form discrimination in chimpanzees and two-year-old children. II. Form versus background. *J. genet. Psychol.*, * 1933, 42, 28-50. [++ 4f-4t-6r: Pn]
3356. Johnson, H. M. Visual pattern-discrimination in the vertebrates—IV. Effective differences in direction of visible striae for the monkey and the chick. *J. Anim. Behav.*, 1916, 6, 189-204. [++ 5t: Ceb]
3357. Kafka, H. Beitrag zur Psychologie eines niederen Affen: Größenunterscheidung bei *Cercopithecus fuliginosus*. *Z. vergl. Physiol.*, 1931, 15, 71-120. [7f-20t-31r: C-c]
3358. Klüver, H. Zur Psychologie der Veränderungsauffassung bei niederen Affen. *Z. angew. Psychol.*, 1931, 59, Beiheft, 132-156. (W. Stern-Festschrift.) [1f-4t: Affe]
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SECONDARY AUDITORY PROCESSES

See: 3315, 3359, 3496, 3502, 3503.

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See: 3316, 3829.

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The Action System

REFLEX ACTION

(see Physiol.)

LOCOMOTION & POSTURE

See: 206, 3564, 3657, 3676, 3699, 3766, 3774, 3775, 3778, 3780, 3782, 3786, 3789, 3817, 3857, 3901, 3989.

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SLEEP & SHELTER; HIBERNATION

See: 3412, 3616, 3619, 3633, 3637, 3642, 3648, 3654, 3657, 3676, 3689a, 3703, 3704, 3710, 3721, 3728, 3740, 3823, 3895, 3899.

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PROTECTIVE & AGGRESSIVE ACTIVITIES

See: 3536, 3564, 3583, 3689a, 3818.

FEAR

See: 3589, 3602, 3699, 3700, 3715, 3734, 3761, 3766, 3796, 3800, 3829, 3837, 3857, 3894, 4024.

BEHAVIOR TENDENCIES OR TEMPERAMENT

See: 2782, 3320, 3321, 3323, 3412, 3428, 3453, 3612, 3622, 3657, 3694, 3734, 3766, 3775, 3778, 3834, 3859.

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Motivation of Behavior

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TRIAL & ERROR LEARNING (SECONDARY PROBLEM SOLUTION)

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See also: 3308, 3318, 3328, 3435, 3471, 3483.

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See also: 3088, 3094, 3109, 3111, 3230, 3308, 3313, 3314, 3317, 3318, 3322, 3472, 3473, 3474, 3475, 3524d.

SERIAL OR MAZE LEARNING & OTHER TYPES OF TRIAL & ERROR LEARNING

3466. Gengerelli, J. A. The principle of minimum path in the ringtail monkey. *Publ. Univ. Calif., Los Angeles, Educ., Philos., Psychol.*,* 1933, 1, 165-187. [9f-13t: *Ceb*]

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3469. Kempf, E. J. Two methods of subjective learning in the monkey *Macacus rhesus*. *J. Anim. Behav.*, 1916, 6, 256-265. [Mc]

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See also: 3108, 3110, 3115, 3308, 3314, 3432, 3494, 3495.

IMITATIONAL LEARNING

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3473. Warden, C. J. & Jackson, T. A. Imitative behavior in the rhesus monkey. *J. Genet. Psychol.*, 1935, 46, 103-125. [1f-12t-20r: *Mc*]

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See also: 3308, 3314, 3317, 3318, 3464, 3469, 3524, 3562.

Intelligent Behavior; Insight; Ideation

GENERAL

See: 3301, 3303, 3306, 3308, 3319, 4015.

MNEMONIC CAPACITIES

(*delayed response & alternation, &c.*)

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3477. Grether, W. F. & Maslow, A. H. An experimental study of insight in monkeys. *J. comp. Psychol.*, 1937, 24, 127-134. [1f-5t-11r: *C-p Mc Pp Ceb*]

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3486. Tinklepaugh, O. L. Multiple delayed reaction with chimpanzees and monkeys. *J. comp. Psychol.*, 1932, 13, 207-243. [1f-17t: *Pn*]

3487. Yerkes, R. M. & Yerkes, D. N. Concerning memory in the chimpanzee. *J. comp. Psychol.*, 1928, 8, 237-271. [1f-2t-cf. no. 3480: *Pn*]

3488. Yudin, H. C. & Harlow, H. F. Comparative behavior of primates. V. Delayed reactions in primates in horizontal and vertical planes. *J. comp. Psychol.*, 1933, 16, 143-148. [1pl-2t-2r: *Mc Pp Mndr*]

See also: 3089, 3108, 3110, 3112, 3113, 3114, 3115, 3127, 3129, 3308, 3313, 3320, 3321, 3322, 3362, 3369, 3384, 3430a, 3434, 3437, 3438, 3491, 3524, 3607a.

IDEATIONAL (SYMBOLIC) BEHAVIOR

(*Multiple choice, double alternation, counting &c.*)

3489. Bierens de Haan, J. A. Zahlbegriff und Handlungsrhythmus bei einem Affen. *Zool. Jb., Abt. 3*, 1935, 54, 267-288. [7t-r: *Mc*]

3490. Bierens de Haan, J. A. Versuche über das Erfassen räumlicher Beziehungen in waggerrechter und senkrechter Richtung bei einigen niederen Affen. *Z. Tierpsychol.*, * 1937, 1, 219-240. [1f-8t-r: *C-c Mc*]

3491. Bierens de Haan, J. A. & Kooyman, Dina. Bildung und Zerstörung von Handlungsrhythmen bei einem Schweinsaffen. *Arch. néerl. Zool.*, * 1936, 2, 143-159. [1f-4t-6r: *Mc*]

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logie. *Naturw. Wschr.*, 1916, 31, 564-565.
[based on no. 3498]

3499. Révész, G. Expériences sur la mémoire topographique et sur la découverte d'un système chez des enfants et des singes inférieurs. *Arch. Psychol., Genève*, 1923, 18, 323-342.

[++ 4f-7t: Mc]

3500. Robinson, E. W. A preliminary experiment on abstraction in a monkey. *J. comp. Psychol.*, 1933, 16, 231-236. [2f: Mc]

3501. Tellier, Mariette. Le macaque saisit-il le rapport logique? *Bull. Soc. Sci. Liège*, 1932, 1, 227-231. [Mc]

3501a. Verlaine, L. Le macaque sait-il compter? Notion du nombre ou rythme de préhension. *Bull. Soc. Sci. Liège*, 1938, 7, 51-61.

3501b. Verlaine, L. La notion du nombre chez le macaque. Acquisition par synthèse d'unités contiguës dans l'espace. *Bull. Soc. Sci. Liège*, 1938, 7, 135-148. [Mc]

3501c. Verlaine, L. La notion du nombre chez le macaque. Acquisition par synthèse d'unités contiguës dans le temps. *Bull. Soc. Sci. Liège*, 1938, 7, 310-321. [Mc]

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See also: 3308, 3313, 3316, 3319, 3320, 3430, 3440, 3454, 3455, 3467, 3483; oddity, 3384, 3454, 3455, 3456, 3497, 3500; counting, 3314, 3410, 3411, 3489, 3491, 3493, 3496, 3498, 3498a, 3501a, 3501b, 3501c, 3503, 3595, 3804; multiple choice, 3490.

INSIGHTFUL BEHAVIOR (PRIMARY PROBLEM SOLUTION)

(instrumentation, box-stacking, detour, &c.)

3506. Bierens de Haan, J. A. Die Baukunst eines niederen Affen (*Cebus hypoleucus* Humb.). *Tijdschr. ned. dierk. Ver.*, 1930, (3), 2, 23-27, pl. 2. [Ceb]

3506a. Bierens de Haan, J. A. Über das Suchen nach verstecktem Futter bei Affen und Halbaffen. Zugleich ein Beitrag zu der Frage nach dem konkreten Verständnis dieser Tiere. *Z. vergl. Physiol.*, 1930, 11, 630-655.

[+++ 2t-16r: C-p C-c Mc Pp Lm]

3507. Bierens de Haan, J. A. Werkzeuggebrauch und Werkzeugherstellung bei einem niederen Affen (*Cebus hypoleucus* Humb.). *Z. vergl. Physiol.*, 1931, 13, 639-695.

[9f-32r: Gr Pn Png Hyl Ceb]

3508. Bingham, H. C. Chimpanzee translocation by means of boxes. *Comp. Psychol. Monogr.*, 1929, 5, no. 25, 91 pp., 4 pls. [5t-11r: Pn]

3509. Bingham, H. C. Selective transportation by chimpanzees. *Comp. Psychol. Monogr.*, 1929, 5, no. 4, 45 pp., 4 pls. [1f-2t: Pn]

3510. Brainard, P. P. The mentality of a child compared with that of apes. *J. genet. Psychol.*, * 1930, 37, 268-293. [+ 6f-1t-2r]

3511. Drescher, K. & Trendelenburg, W. Weiterer Beitrag zur Intelligenzprüfung an Affen (einschliesslich Anthropoiden). *Z. vergl. Physiol.*, 1927, 5, 613-642. [7f: Pn Png Hyl Mc Pp]

3512. Fischel, W. Weitere Untersuchung der Ziele der tierischen Handlung. *Z. vergl. Physiol.*, 1930, 11, 523-438. [+ 6f-1-19r: Lm]

3513. Fischel, W. Affekt, Gedächtnis und Leistung bei Wirbeltieren. *Z. Tierpsychol.*, * 1938, 2, 198-220. [+ 13f: C-p]

3514. Guillaume, P. & Meyerson, I. Quelques recherches sur l'intelligence des singes. (Communication préliminaire). *J. Psychol. norm. path.*, 1930, 27, 92-97.

3515. Guillaume, P. & Meyerson, I. Recherches sur l'usage de l'instrument chez les singes. I. Le problème du détourn. *J. Psychol. norm. path.*, 1930, 27, 177-236, 4 pls.

[17f: Gr Pn Png Hyl C-p C-c Mc Pp Atl]

3516. Guillaume, P. & Meyerson, I. Recherches sur l'usage de l'instrument chez les singes. II. L'intermédiaire lié à l'objet. *J. Psychol. norm. path.*, 1931, 28, 481-555.

[3pl-42f: Pn Png C-p Atl]

3517. Guillaume, P. & Meyerson, I. Recherches sur l'usage de l'instrument chez les singes. III. L'intermédiaire indépendant de l'objet. *J. Psychol. norm. path.*, 1934, 31, 497-554.

[6pl-12f: Gr Png Hyl C-c Mc Pp Atl]

3518. Guillaume, P. & Meyerson, I. Recherches sur l'usage de l'instrument chez les singes. IV. Choix, correction, invention. *J. Psychol. norm. path.*, 1937, 34, 425-448, 2 pls. [1f-2t: Pn]

3519. Harlow, H. F. & Settlage, P. H. Comparative behavior of primates. VII. Capacity of monkeys to solve patterned string tests. *J. comp. Psychol.*, 1934, 18, 423-435. [2f-3t-14r: C-p C-c Mc Pp Mndr Ceb Atl]

3520. Klüver, H. Re-examination of implement-using behavior in a *Cebus* monkey after an interval of three years. *Acta psychol., The Hague*,* 1937, 2, 347-397. [3f-15r: Ceb]

3521. Köhler, W. Intelligenzprüfungen an Anthropoiden. I. *Abh. preuss. Akad. Wiss., Physik.-math. Kl.*, 1917, no. 1, 213 pp., 3 pls. [Pn]

3522. Köhler, Wolfgang. *Intelligenzprüfungen zu Menschenaffen*. Berlin: J. Springer, 1921, 194 pp., 7 pls. [19f: Pn]

3523. Köhler, Wolfgang. *The mentality of apes*. New York: Harcourt, Brace & co., 1925, viii, 342 pp., 9 pls. [19f: Pn]

3524. Köhler, W. Intelligence in apes. (Powell Lectures in psychological theory.) In: *Psychologies of 1925*. Worcester, Mass.: Clark University, 1926, pp. 145-161. [Pn]

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3524b. Leruth, R. La notion de la roue chez le macaque. II.—L'indicateur du sens de rotation. *Bull. Soc. Sci. Liège*, 1936, 5, 98-101. [Mc]

3524c. Leruth, R. La notion de la roue chez le macaque. III.—La notion générale de la rotation. *Bull. Soc. Sci. Liège*, 1936, 5, 131-134. [Mc]

3524d. Leruth, R. La notion de la roue chez le macaque. IV.—Écartement d'un obstacle à la rotation. *Bull. Soc. Sci. Liège*, 1936, 5, 178-182. [Mc]

3524e. Leruth, R. La notion de la roue chez le macaque. V.—Transmission du mouvement d'un disque à un autre. *Bull. Soc. Sci. Liège*, 1937, 6, 86-90. [Mc]

3525. Lindemann, E. Untersuchungen über primitive Intelligenzleistungen hochgradig Schwachsinniger und ihr Verhältnis zu den Leistungen von Anthropoiden. *Z. ges. Neurol. Psychiat.*, 1926, Orig., 104, 529-569. [+ 5f-38r: Pn Affe]

3526. McDougall, K. D. & McDougall, W. Insight and foresight in various animals—monkey, raccoon, rat, and wasp. *J. comp. Psychol.*, 1931, 11, 237-273. [+ 10f: Mc]

3527. Nellmann, H. & Trendelenburg, W. Ein Beitrag zur Intelligenzprüfung niederer Affen. *Z. vergl. Physiol.*, 1926, 4, 142-200. [29f-r: Mc Pp]

3528. Shepherd, W. T. Tests on adaptive intelligence in dogs and cats, as compared with adaptive intelligence in rhesus monkeys. *Amer. J. Psychol.*, 1915, 26, 211-216. [+ 3t: Mc]

3529. Shepherd, W. T. Some observations and experiments of the intelligence of the chimpanzee and orang. *Amer. J. Psychol.*, 1923, 34, 590-591. [Pn Png]

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3531. Yerkes, R. M. & Spragg, S. D. S. La mesure du comportement adapté chez les chimpanzés. *J. psychol. norm. path.*, 1937, 34, 449-474. [6t-1f-9r: Pn]

See also: 3110, 3115, 3302, 3305, 3308, 3313, 3315, 3316, 3317, 3319, 3320, 3321, 3412, 3460, 3474, 3477, 3504, 3607a, 3714; spontaneous instrumentation, 3630, 3631, 3643, 3743, 3764, 3766, 3798, 3868.

Reproductive & Social Behavior

GENERAL

See: 2757, 2764, 2779, 2781, 2782, 2823, 2885, 2912, 2924.

PRIMARY SEX BEHAVIOR

3532. Ball, Josephine & Hartman, C. G. Sexual excitability as related to the menstrual cycle in the monkey. *Amer. J. Obstet. Gynaec.*, 1935, 29, 117-119. [1f: monkey]

3533. Ball, Josephine. Sexual responsiveness and temporally related physiological events during pregnancy in the rhesus monkey. *Anat. Rec.*, 1937, 67, 507-512. [1f-13r: Mc]

3534. Bingham, H. C. Sex development in apes. *Comp. Psychol. Monogr.*, 1928-29, 5, no. 23, 165 pp., 1 pl. [3f-33r: Gr Pn Pp]

3535. Brandes, G. Die Begattung der Orangs. *Zool. Gart., Lpz.*, 1930, n.f., 3, 216-217. [Png]

3536. Hamilton, G. V. A study of sexual tendencies in monkeys and baboons. *J. Anim. Behav.*, 1914, 4, 295-318. [Mc Pp]

3537. Hamilton, G. V. *An introduction to objective psychopathology*. St. Louis: G. V. Mosby co., 1925, 354 pp. [Mc]

3538. Kempf, E. J. The social and sexual behavior of infrahuman primates, with some comparable facts in human behavior. *Psychoanal. Rev.*, 1917, 4, 127-154. [+++ monkey]

3539. Kempf, E. J. Social and sexual behavior of monkeys with some comparable facts in human sexual behavior. *Amer. J. Urol.*, 1918, 14, 82-86. [++ Mc]

3540. Miller, G. S., Jr. The primate basis of human sexual behavior. *Quart. Rev. Biol.*, 1931, 6, 379-410. [++ nr: Pn Png Mc Pp]

3541. Miller, G. S., Jr. Some elements of sexual behavior in primates and their possible influence on the beginnings of human social development. *J. Mammal.*, 1928, 9, 273-293. [Gr Pn Mc Pp]

3542. Sokolowsky, A. The sexual life of the anthropoid apes. *Urol. cutan. Rev.*, 1923, 27, 612-615. [3f: Gr Pn Png]

3543. Tinklepaugh, O. L. Le comportement sexuel chez les chimpanzés et les singes inférieurs, considéré comme une réaction de substitution consécutive à des troubles émotionnelles. *J. Psychol. norm. path.*, 1933, 30, 930-954. [21r: Pn Mc]

See also: 365, 2922a, 2927b, 3322, 3549, 3555, 3557, 3558, 3564, 3573, 3575, 3576, 3583, 3588, 3593, 3657, 3716, 3772, 3803, 3857.

MATERNAL & PATERNAL BEHAVIOR

(incl. infant-mother behavior)

3544. von Allesch, G. J. Geburt und erste Lebensmonate eines Schimpansen. *Naturwissenschaften*, 1921, 9, 774-776. [Pn]

3545. von Allesch, G. J. Bericht über die drei ersten Lebensmonate eines Schimpansen. *S. B. preuss. Akad. Wiss.*, 1921, (1), 672-685. [Pn]

3546. Aulmann, G. Geglückte Nachzucht eines Orang-Utan im Düsseldorfer Zoo. *Zool. Gart., Lpz.*, 1932, n.f., 5, 81-90. [5f: Png]

3547. Bingham, H. C. Parental play of chimpanzees. *J. Mammal.*, 1927, 8, 77-89, pls. 8-9. [Pn]

3548. Blair, W. R. Notes on the birth of a chimpanzee. *Bull. N. Y. zool. Soc.*, 1920, 23, 105-111. [9f: Pn]

3548a. Brandes, G. Die Stillzeit des Orang. *Zool. Gart., Lpz.*, 1938, n.f., 10, 139-141. [Png]

3549. Coolidge, H. J., Jr. Notes on a family of breeding gibbons. *Hum. Biol.*, 1933, 5, 288-294. [4f: HyL]

3550. Spence, K. W. Réactions des mères chimpanzés à l'égard des enfants chimpanzés après séparation. *J. Psychol. norm. path.*, 1937, 34, 475-493, 1 pl. [12t-4r: Pn]

3551. Spiegel, A. Biologische Beobachtungen an Javamakaken, *Macacus irus* F. Cuv. (*cynomolgus* L.). Geburt und Entwicklung während der ersten Lebensmonate. *Zool. Anz.*, 1929, 81, 45-65. [11f-It-r: Mc]

3552. Tinklepaugh, O. L. & Hartman, C. G. Behavioral aspects of parturition in the monkey (*Macacus rhesus*). *J. comp. Psychol.*, 1930, 11, 63-98. [3pl-18r: Mc]

3553. Tinklepaugh, O. L. & Hartman, C. G. Behavior and maternal care of the newborn monkey (*Macaca mulatta*—“*M. rhesus*”). *J. genet. Psychol.*, * 1932, 40, 257-286. [3pl-1t-14r: Mc]

3554. Hartman, C. G. & Tinklepaugh, O. L. Weitere Beobachtungen über die Geburt beim Affen *Macacus rhesus*. *Arch. Gynaek.*, 1932, 149, 21-37. [3f-2t-r: Mc]

3555. Montané, L. Notas sobre un chimpancé nacido en Cuba. *Mem. Soc. cubana Hist. nat.*, 1915, 1, 259-269, 4 pls. [Pn]

3556. Montané, L. A Cuban chimpanzee. *J. Anim. Behav.*, 1916, 6, 330–333. [Pn]
3557. Montané, L. Notes sur un chimpanzé né à Cuba. *Arch. mens. Obstét.*, 1918, 10, 323–326. [1f: Pn]
3558. Montané, L. Histoire d'une famille de chimpanzés; étude physiologique. *Bull. Soc. Anthropol. Paris*, 1928, (7), 9, 14–35. [4f-20r: Pn Png Hyl]
3559. Yerkes, R. M. Maternal instinct in a monkey. *J. Anim. Behav.*, 1915, 5, 403–405. [Mc]
3560. Yerkes, R. M. & Tomilin, M. I. Mother-infant relations in chimpanzee. *J. comp. Psychol.*, 1935, 20, 321–359. [6pl-3t: Pn]
- See also: 2775, 2781, 2908, 2909, 2911, 2912, 2915, 2916, 2919, 2921, 2922a, 2924, 2927, 2929, 2934, 2936, 3319, 3427, 3434, 3435, 3564, 3583, 3701, 3784, 3785, 3799, 3822, 3823, 3847, 3857, 3862, 3865, 3873, 3886, 3903, 3906, 3909, 3911, 4015, 4049.
- SOCIAL GROUPS & SOCIALLY SIGNIFICANT BEHAVIOR**
(groups, leadership & dominance, imitation, communication, food-sharing, &c.)
3561. Alverdes, Friedrich. *Social life in the animal world*. New York: Harcourt, Brace & co., 1927, ix, 216 pp. [+ nr]
3562. Aronowitzsch, G. & Chotin, B. Über die Nachahmung bei den Affen (*Macacus rhesus*). *Z. Morph. Ökol. Tiere*, 1929, 16, 1–25. Also: *Nov. ref. fiziol. nerv. sist.*, 1929, 3, 378–398. [6f-16r: Mc]
3563. Briffault, Robert. *The mothers. A study of the origins of sentiments and institutions*. London: G. Allen & Unwin, 1927, vol. 1, xix, 781 pp. [Review]
3564. Carpenter, C. R. A field study of the behavior and social relations of howling monkeys (*Alouatta palliata*). *Comp. Psychol. Monogr.*, 1934, 10, no. 48, 168 pp., 1 pl. [16pl-3f-3t-72r: Al]
3565. Coolidge, H. J., Jr. The apes in animal sociology. *Harv. Alumni Bull.*, 1933, 36, 363–366. [3f: Gr Pn Png]
3566. Crawford, M. P. The co-operative solving of problems by young chimpanzees. *Comp. Psychol. Monogr.*, 1937, 14, no. 2, 88 pp. [1pl-4f-3t-nr: Pn]
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& EXHIBITION
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- 4017.** Anon. The Zoological Society's new ape-house. *Nature, Lond.*, 1902, 66, 406-407.
- 4018.** Anon. The new gorilla house in the Zoological Gardens, London. *Archit. Rev., Lond.*, 1933, 73, 241-245.
- 4019.** Aulmann, G. Das neue Affenhaus im Düsseldorfer Zoo. *Zool. Gart., Lpz.*, 1933, n.f., 6, 48-56.
- 4020.** Baege, M. H. Die Menschenaffenstation auf Teneriffa. *Naturw. Wschr.*, 1915, n.f., 14, 315-318.
- 4021.** Bourdelle, E., Mouquet, A. & Mathias, P. La collection de primates de la ménagerie du Muséum National d'Histoire Naturelle. *Bull. Mus. Hist. nat., Paris*, 1929, (2), 1, 234-238.
- 4022.** Büttikofer, J. Das neue Affenhaus des Zoologischen Gartens in Rotterdam. *Zool. Beob.*, 1906, 47, 33-42. [2f]
- 4023.** Delorme, M. "Pastoria" (Institut Pasteur de Kindia): Son histoire et son rôle aujourd'hui et demain. *La Guinée milit.*, 1929, Suppl. 8-9, 1-16.
- 4024.** Ditmars, R. L. The collection of great apes. *Bull. N. Y. zool. Soc.*, 1911, 2, 756-758. [2f]
- 4025.** Heck, L. Das Affenpalmenhaus des Berliner Zoologischen Gartens. *Zool. Gart., Lpz.*, 1930, n.f., 2, 173-184. [6f]
- 4026.** Honoré, F. Les "Singeries" de l'Institut Pasteur à Kindia et à Paris. *L'Illustration, Paris*, 1927, 169, 407-409. [8f]
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- 4028.** Krogman, W. M. & Schultz, A. H. Anthropoid ape materials in American collections. *Amer. J. phys. Anthropol.*, 1938, 24, 199-234.
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- 4030.** Mégnin, P. Le paradis des singes. *Nature, Paris*, 1897, 25, (2), 285-286. [1f]
- 4031.** Reuvens, C. L. Die Affen im zoologischen Garten zu Rotterdam. *Zool. Gart., Frankfurt*, 1889, 30, 182-187, 206-213.
- 4031a.** Rode, P. Pastoria, centre de recherches sur les singes en Guinée française. *La Terre et la Vie*, 1937, 7, 109-116. [4f]
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- 4036.** Stern, W. Die neuen Yale-Einrichtungen für Anthropoidenforschung. *Z. angew. Psychol.*, 1932, 43, 516.
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- 4042.** Yerkes, R. M. Yale laboratories of comparative psychobiology. *Comp. Psychol. Monogr.*, 1932, 8, no. 3, 33 pp. [10pl-r: Pn]
- 4043.** Yerkes, R. M. Yale Laboratories of Primate Biology, Incorporated. *Science*, 1935, n.s., 82, 618-620.
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- PRIMATE CULTURE
& METHODOLOGY**
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- 4046.** Botschkareff, P. W., Nikolaewa, O. I. & Ssmirnoff, A. N. (Zur Frage über die Ernährung der Antropoiden in der Gefangenschaft.) *Arkh. biol. Nauk.** 1933, 33, 240-248. [2t-Russ. with Gr. abstr.]
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[*Prsb Mc Nyct-c*]

4050. Howe, P. R. Some experimental effects of deficient diets on monkeys. *J. Amer. dent. Ass.*, 1924, 11, 1161-1165, 1167-1168. [Mc]

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4058. Scharff, R. F. Open air treatment of monkeys in the Dublin Zoological Gardens. *Irish Nat.*, 1906, 15, 85-86, pl. 3.

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CONSERVATION

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- 4080a. Jenks, A. E. Bulu knowledge of the gorilla and chimpanzee. *Amer. Anthrop.*, 1911, n.s., 13, 56-64. [+ Gr Pn]
- 4081.* Joleaud, L. Le rôle des singes dans les traditions populaires nord-Africaines. *J. Soc. Africainistes*, 1931, 1, 117-150.
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See also: 3606, 3610, 3637, 3648, 3688, 3689a, 3692, 3730, 3881, 3888, 3907, 3912, 3914; & in
Intr. I, Ehrenberg, 1833, 1834; von Heusinger; Hippolyte-Boussac; Lortet & Gaillard; Perez Baradas; & in Intr. II, Friederici; Pigafetta.
- PRIMATES IN ART
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4087. Landseer, Thomas. *Monkeyana, or men in miniature*, designed and etched by Thomas Landseer. London: F. G. Moon, 1827, 25 pls.
4088. Nass, L. Singeries. *Corresp. med.*, 1906, 12, no. 272, 6-9.
4089. Wilson, Maurice. *Just monkeys*. London: Country Life, 1937, 88 pp. [22pl-48f:
Gr Pn Png Hyl C-p C-c Mc Pp Ceb Lm]
4090. Wolf, Joseph. *Zoological sketches made for the Zoological Society of London, from animals in their vivarium, in the Regent's Park*. Edited, with notes, by P. L. Sclater. London: Henry Graves & co., 1861-67, 2 vols., 100 col. pls., fol. [Pn C-p Mc Lm Daub]
See also: McDermott, Intr. I.

END OF PART I

of

Bibliographia primatologica
including the first 4,630 entries.

Appendix

A Key to Abbreviations of Periodicals Not Listed in *A World List of Scientific Periodicals Published in the Years 1900-1933, 2nd Ed.*

Explanatory note. The abbreviations in the following list have been used in the text for scientific journals which ceased publication before 1900, or commenced publication after 1933, or which have been overlooked in compiling the *World List*; and for journals of a non-scientific character. Where such abbreviations appear in the text they are marked with an asterisk. The abbreviations coined conform in general to the practices of the *World List*. For journals published in Japanese the abbreviations are often those employed by the *Japanese Journal of Medical Sciences*, and in several instances the full title could not be determined. In the *Key*, the title of a journal is arranged in a fashion to facilitate quick location of the journal in Gregory's *Union List of Serials*.

Acta neerl. Morph.

Acta neerlandica Morphologiae normalis et pathologicae. Utrecht. v. 1- 1937-.

Acta psychol., The Hague.

Acta psychologica, The Hague. v. 1- 1935-.

Acta psychol., Keijo.

Acta psychologica, Keijo. (Keijo, Imperial University. Psychological Institute). Keijo, Japan. v. 1- 1930-.

An. Univ. Valencia.

Valencia. Universidad. Anales. v. 1- 1920-.

Ann. franç. étrang. Anat. Physiol.

Annales francaises et étrangères d'Anatomie et de Physiologie, appliquées à la Médecine et à l'Histoire naturelle. Paris, v. 1-3, 1837-39.

Ann. Mus. Hist. nat. Paris.

Paris. Muséum d'Histoire naturelle. Annales. v. 1-20, 1802-13.

Ann. Soc. Nat. Modena.

Society dei Naturalisti (e Matematici) di Modena. Annuario. v. 1-15, 1866-82.

Anthrop. Rev., Lond.

Anthropological Review. (Anthropological Society of London). v. 1-8, 1863-70.

Anthrop. Zh., Mosk.

Antropologicheski Zhurnal. Moskau. v. 1- 1932-.

Arb. path. Inst. Marburg.

Marburg. Universität. Pathologisches Institut. Arbeiten. v. 1-2, 1893.

Arch. Anat. Physiol. wiss. Med.

Archiv für Anatomie, Physiologie und wissenschaftliche Medicin. Berlin; Leipzig. v. 1-43, 1834-76.

Arch. holl. Beitr. Nat.- u. Heilk.

Archiv für die holländischen Beiträge zur Natur- und Heilkunde. Utrecht. v. 1-3, 1857-64.

Arch. néerl. Zool.

Archives néerlandaises de Zoologie. Leyden. v. 1-1934-.

Arch. Path.

Archives of Pathology. Chicago. v. 1- 1926-.

Arch. Physiol. norm. path.

Archives de Physiologie normale et pathologique. Paris. v. 1- 1868-.

Arkh. biol. Nauk.

Arkhiv Biologicheskikh nauk; or, Archives des Sciences biologique. Moskau. v. 1- 1892-.

Asiat. Res., Calcutta.

Asiatic Researches; or, Transactions of the Society (Asiatic Society of Bengal). Calcutta. v. 1-20, 1788-1839.

Das Ausland.

Das Ausland. Stuttgart; etc. v. 1-66, 1828-93.

Ber. anat. Anstalt Königsberg.

Rathke's Berichte von der königlichen anatomischen Anstalt zu Königsberg. v. 1-9, 1818-1838.

Ber. Kongr. exp. Psychol. Wien

Bericht über den XI Kongress für experimentelle Psychologie in Wien, 1929. Jena, G. Fischer, 1930.

Bol. biol., S. Paulo.

Boletín biológico. (Club zoológico do Brasil) São Paulo. v. 1- 1933-.

Boll. sci.

Bulletino scientifico. Milan; Pavia. v. 1-21, 1879-99.

Boll. Soc. romana Studi zool.

Società romana per gli Studi zoologici. Rome. Bollettino. v. 1-8, 1892-98.

- Boston J. Philos. Arts.*
Boston Journal of Philosophy and the Arts. v. 1-3,
1823-26.
- Brit. Rec. obstet. Med.*
The British Record of obstetric Medicine and
Surgery. Manchester. v. 1-2, 1848-49.
- Bull. Soc. Anthropol. Bruxelles.*
Société d'Anthropologie de Bruxelles. *Bulletin.*
v. 1- 1882-.
- Bull. Univ. Tiflis.*
Tiflis. Universitet. *Izvestiâ.* v. 1- 1919-.
- Byull. vsesoyuz. Inst. eksp. Med.*
Vsesoyuznogo Instituta eksperimental'noi Medit-
siny. *Byulleten.* (Bulletin All-Union. Institute of
experimental Medicine.) Leningrad. v. 1- 1935-.
- Cold Spr. Harb. Symp. quant. Biol.*
Cold Spring Harbor Symposia on quantitative
Biology. Biological Laboratory. Cold Spring
Harbor, L.I., N.Y. v. 1- 1933-.
- Confinia neurol.*
Confinia neurologica. Basel; Philadelphia. v. 1-
1938-.
- Coop. Res., Carneg. Instn.*
Cooperation in Research. Carnegie Institution of
Washington. Publ. no. 501.
- Cunningham Mem., R. Irish Acad.*
Royal Irish Academy. Dublin. *Cunningham Mem-
oirs.* v. 1-11, 1880-.
- Día méd., B. Aires.*
El Día médico. Buenos Aires. v. 1- 1928-.
- Dtsch. Arch. Physiol.*
Deutsches Archiv für die Physiologie. Halle; Ber-
lin. v. 1-8, 1815-23.
- Edinb. J. Sci.*
Edinburgh Journal of Science. Edinburgh. 1824-
1832.
- Edinb. new philos. J.*
Edinburgh new philosophical Journal. Edinburgh.
1826-1864.
- Encyclop. méth.*
Encyclopédie méthodique. Paris & Liège. v. 1-
196, 1782-1832.
- Gelehrte Anz. bayer. Akad. Wiss.*
K. bayerische Akademie der Wissenschaften.
Munich. *Gelehrte Anzeigen.* v. 1-50, 1835-60.
- Glean. Sci.*
Gleanings in Science. Calcutta. v. 1-3, 1829-31.
- Harv. Alumni Bull.*
Harvard Alumni Bulletin. v. 1- 1898-.
- Hist. Acad. R. Sci. Paris.*
Institut de France. Académie des Science. Paris.
Histoire de l'Académie royale [etc.]. 1699-1789.
- Hoku-Etsu Ig. Kw. Z., Niigata.*
Hoku-Etsu Igaku Kwai Zasshi. (Journal of the
Hoku Etsu Medical Society).
- L'Illustration, Paris.*
Illustration. Paris. v. 1- 1843-.
- L'Institut, Paris.*
Institut. Paris. v. 1-44, 1833-76.
- Int. J. Indiv. Psychol.*
International Journal of Individual Psychology.
Chicago. v. 1- 1935-.
- Isis, Jena.*
Isis von Oken. Jena; Leipzig. v. 1-41, 1817-48.
- Izv. imp. Tomsk. Univ.*
Tomsk. Universitet. *Izvestiâ.* v. 1- 1889-.
- J. Anthropol., Lond.*
Journal of Anthropology. London. v. 1, 1870-71.
- J. belge. Neurol. Psychiat.*
Journal belge de Neurologie et de Psychiatrie.
Bruxelle. v. 33- 1933-.
- J. genet. Psychol.*
(The pedagogical Seminary and) Journal of genetic
Psychology. Worcester, Mass.; Provincetown,
Mass. v. 32- 1925-.
- J. Hist. nat.*
Journal d'Histoire naturelle. Paris. v. 1-2, 1792.
- J. Neurophysiol.*
Journal of Neurophysiology. Springfield, Ill. v. 1-
1938-.
- J. Phys. Chim. Hist. nat.*
Journal de Physique, de Chimie, d'Histoire natu-
relle et des Arts. Paris. v. 1-96, 1773-1823.
- J. Psychol., Provincetown.*
Journal of Psychology. Provincetown, Mass. v. 1-
1935-.
- J. Zool.*
Journal de Zoologie. Paris. v. 1-6, 1872-77.
- Jikken. Ig. Z., Tokyo.*
Jikken Igaku Zasshi. (Japanese Journal of experi-
mental Medicine). Tokyo. 1928-.
- Kaibo Z., Tokyo.*
Kaibo Zasshi. Tokyo.
- Knight's Penny Mag.*
Knight's Penny Magazine. London. v. 1-16, 1832-
46.
- Die Koralle.*
Koralle. Magazine für alle Freunde von Natur
und Technik. Berlin. v. 1- 1925-.
- Kosmos, Lpz.*
Kosmos. Zeitschrift für einheitliche Weltan-
schauung auf Grund der Entwickelungslehre.
Leipzig. v. 1-19, 1877-86.

- Lit. Digest.*
Literary Digest. New York. v. 1- 1890-.
- Mag. encyclop.*
Magasin encyclopédique; ou, Journal des Sciences, des Lettres et des Arts. Paris. 1792-1816.
- Mag. Ges. naturf. Fr. Berl.*
Gesellschaft naturforschender Freunde. Berlin.
Magazin [etc.] v. 1-8, 1807-18.
- Mag. nat. Hist.*
Magazine of natural History. London. v. 1-9, 1828-36.
- Mag. Neueste Phys. Naturg.*
Magazin für das Neueste aus der Physik und Naturgeschichte. Neue Auflage. Gotha. v. 1-1785-.
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